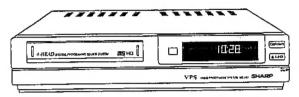
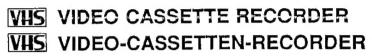
# SHARP

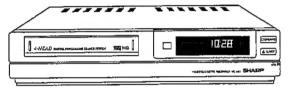
# SERVICE MANUAL SERVICE-ANLEITUNG

523Q7VC-A51GM





VC-A51GM(GY)



VC-A51SM(GY), VC-A51YM(GY)

# VC-A51GM(GY) VC-A51SM(GY) VC-A51YM(GY)

MODELS MODELLE

The service manual covers only those items that differ from the VC-A60YM(BR). For information on any other items, refer to the service manual for the VC-A60YM(BR).

Die Service-Anleitung beinhaltet nur die Posten, welche sich vom Modell VC-A60YM(BR) unterscheiden. Informationen über alle anderen Posten können der Service-Anleitung des Modells VC-A60YM(BR) entnommen werden.

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#### **SPECIFICATIONS**

#### **TECHNISCHE DATEN**

Format: VHS PAL standard

Video recording: Two rotary head helical

system scan system
Video signals: PAL/SECAM colour and

B/W signals, 625 lines (VC-A51GM(GY))

PAL colour and B/W signals, 625 lines (VC-A515M(GY)/51YM(GY)

Recording/playing: 4 hours max. with

time SHARP E-240 tape (SP)

SHARP E-480 tape (LP)

Tape width: 12.7 mm

Tape speed: 23.39 mm/sec. (SP)

11.70 mm/sec. (LP) Antenna: 75 ohm unbalanced

Receiving channel: UHF channel E21 - E69

VHF channel

S1 - S20/E 2 - E12

RF converter output: UHF channel E30 - E39 (adjustable). Preset to signal

CH 36

Power requirement: AC 230 V, 50 Hz

Power consumption: Approx. 27W

(VC-A51GM(GY))

Approx. 26W (VC-A51SM(GY)/ 51YM(GY))

Operating temperature: 5°C to 40°C Storage temperature: - 20°C to 55°C

Weight: 6.1kg (VC-A51GM(GY))

6.0kg (VC-A51SM(GY)/

51YM(GY))

Dimensions: 430 mm (W) x 348mm

(D)  $\times$  82 mm (H)

Video

Input: 1.0 Vp-p, 75 ohm Output: 1.0 Vp-p, 75 ohm Audio 0 dBs = 0.775 Vrms

input: Line: -3.8 dBs, more

than 47 k ohm

Output: Line: -3.8 dBs, less than 1 k ohm

Accessories included: Antenna 75 ohm

coaxial connector cable

(plug provided) Operation manual Infrared remote control

Batterv

\*As part of our policy of continuous improvement, we reserve the right to alter design and

specifications with-out notice.

Note: The antenna must

correspond to the new standard DIN 45325 (IEC 169-2) for combined VHF/UHF antenna with 75 ohm

connector.

Format: VHS, PAL Norm

Video-Aufzeichnungs-: Schrägspuraufzeich-

system nung mit zwei rotierenden

Köpfen

Videosignale: PAL/SECAM-Farb-und

Schwarz-weißsignale, 625 Zeilen (VC-A51GM(GY)) PAL-Farb-und Schwarzweißsignale, 625 zeilen (VC-

A51SM(GY)/51YM(GY))

Aufzeichnungs-/: 4 Stunden maximal mit Wiedergabezeit E240-Band von SHARP (SP)

E480-Band von SHARP (LP)

Bandbreite: 12.7 mm

Bandgeschwinddigkeit: 23,39 mm/s. (SP)

11.70 mm/s. (LP)

Antenne: 75 ohm unsymmetrisch

Empfangskanäle: UHF-Kanäle E21 - E69

VHF-Kanäle

S1 - S20/E2 - E12

HF-Wandler-: UHF-Kanäle E30 - E39

Ausgangssignal (einstellbar), vorein-gestellt

auf Kanal E36

Netzstrom 230 V, 50 Hz Stromversorgung:

Leistungsaufnahme: Ungefähr 27W

(VC-A51GM(GY)) Ungefähr 26W

(VC-A51SM(GY)/51YM(GY))

Betriebstemperatur: 5° bis 40°C Legerungstemperatur: - 20° bis 55°C

Gewicht: 6.1 kg (VC-A51GM(GY))

6.0 kg (VC-A51SM(GY)/

51YM(GY))

Abmessungen:  $.430 (B) \times 348 (T) \times 82 (H) mm$ 

Video

Eingang: 1,0 Vss, 75 Ohm Ausgang: 1,0 Vss, 75 Ohm Audio 0 dBs = 0,775 Veff.Eingang: Direkteingang:

- 3,8 dBs, mehr als 47 k Ohm

Ausgang: Direktausgang:

- 3,8 dBs, weniger als 1 k

Ohm

Mitgeliefertes: 75 Ohm-Koaxialkabel

Zubehör für Antennenanschluß (mit

Stecker)

Bedienungsanleitung Fernbedienung

Batterie

\*Im Sinne der ständi-gen Verbesserung behalten wir uns das Recht vor, die äußere Aufmachung und tech-nischen Daten ohne Vorankündigung zu ändern.

Zur Beachtung: Die Antenne muß der neuen DIN-Norm 45325 (IEC 169-2)

für VHF/UHF-Kombiantennen mit 75 Ohm-Anschluß entsprechen.

### **DISASSEMBLY AND REASSEMBLY**

**UPPER CABINET**: Remove 4 screws ①.

BOTTOM PLATE: Remove 6 (VC-A51GM) or 7 (VC-

A51SM/VC-A51YM) screws 3.

Remove 2 Earth Connection

plates ②.

FRONT PANEL: Remove 1 screw .

Remove 3 clips ⑤.

MAIN PWB : Remove 2 Y/C PWB holders .

Remove 3 screws ⑦.
Remove 2 screws ⑧.

ANTENNA

CHASSIS

: Remove 2 screws (9).

TERMINAL BOARD
POWER UNIT

IIT : Remove 3 screws ①.

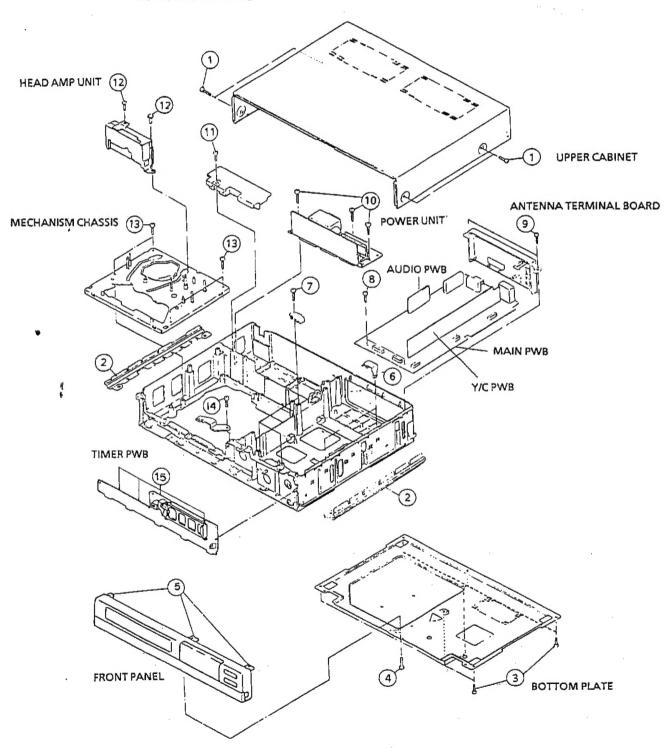
Remove 1 screw(1).

HEAD AMP UNIT : Remove 2 screws ② .

MECHANISM : Remove 4 screws ③ .

: Remove 4 screws ③ . Remove 1 screw ④ .

TIMER PWB : Remove 4 clips (5)



## **AUSBAU UND WIEDERZUSAMMENBAU**

**GEHÄUSEOBERTEIL** : Die 4 Schrauben ① los-ANTENNENKLEMMEN-: Die 2 Schrauben @ losdrehen. **PLATTE** drehen. **BODENPLATTE** : Die 6 (VC-A51GM) order 7 STROMVER-: Die 3 Schrauben @ los-(VC-A51SM/VC-A51YM) **SORGUNGSEINHEIT** drehen. Schrauben 3 losdrehen. Die 1 Schraube (1) Die 2 Erdungsplatte ② drehen. abnehmen. KOPFVORVER-: Die 2 Schrauben (2) **FRONTTAFEL** : Die 1 Schraube losdrehen. STÄRKEREINHEIT drehen. Die 3 Klammern S ent-**MECHANISMU-**: Die 4 Schrauben (3) fernen. **SCHASSIS** drehen. HAUPTLEITERPLATTE : Die 2 Y/C-Leiterplatte-Die 1 Schaube 14 halters 6 entfernen. drehen. Die 3 Schrauben 7 los-ZEITSCHALTER-: Die 4 Klammern (5) entdrehen. **LEITERPLATTE** fernen. Die 2 Schrauben ® losdrehen. VORVER (12) STÄRKER EINHEIT (1) GEHÄUSEOBER TEIL **ANTENNENKLEMMENPLATTE** MECHANISMUSCHASSIS (13) VERSORGUNGS EINHEIT TON 8 LEITERPLATTE **HAUPTLEITERPLATTE** Y/C LEITERPLATTE TIMER LEITERPLATTE **FRONTTAFEL** BODENPLATTE

## TOOLS NECESSARY FOR ADJUSTING THE MECHANICAL UNITS/ ERFORDERLICHE WERKZEUGE ZUR EINSTELLUNG DER MECHANISCHEN TEILE

The following tools are required for proper service and satisfactory repair.

Für ordnungsgemäße Wartung und zufriedenstellende Reparatur sind die folgenden Werkzeuge erforderlich.

No.	Jig Item	Part No.	Code	Configuration	Remarks
9	Alignment Tape (PAL)	VROCPSV	ск		This tape is especially used for electrical fine adjustment.
	15 Box Driver	JiGDRIVER110-7	AS		This Jig is used for height adjustment of the A/C head, and X-position.
15		JiGDRiVER110-4	AV	8	This Jig is used for height adjustment of the retaining guide.

Nr.	Vorrichtung	Teil Nr.	Kode	Aussehen	Bemerkungen
9	Abgleichband (PAL)	VROCPSV	ск		Dieses Band dient insbesondere zur elektrischen Feineinstellung.
15	5 Stecknuß-Schraubendreher	JiGDRIVER110-7	AS		Dieser Stecknuß-Schraubendreher dient zur Höheneinstellung des Ton-/Steuerkopfes, sowie der X- Position
		JiGDRIVER110-4	AV	6	Dieser Stecknuß-Schraubendreher dient zur Höheneinstellung der Rückhalteführung.

## ADJUSTMENT OF ELECTRICAL CIRCUITRY/ EINSTELLUNG DER ELEKTRISCHENSCHALTKREISE

#### ADJUSTMENT OF MAIN (SERVO, SYSTEM CONTROL, TUNER)/OSD CIRCUIT/ EINSTELLUNG DER HAUPT (REGEL, SYSTEMSTEUERUNGS, TÜNER)-/ **BILDSCHIRMANZEIGENKREISEN**

#### ■ ADJUSTMENT OF SERVO CIRCUIT

Adjustment of playback switching point

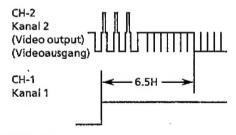
Measuring instrument	Oscilloscope
Mode	Playback Tracking button at center
Tape used	Alignment tape (VROCPSV)
Test point	CH-1; TP502 CH-2; Video output terminal (CH-1 trigger slope switch at (+), Internal trigger at CH-1 side)
Adjusting point	R740 (phase generator MM control)
Specification	6.5 ± 0.5H

- 1. Insert the alignment tape (VROCPSV) and put the unit in playback mode.
- 2. Set the tracking button to the center position.
- 3. Adjust R740 (phase generator MM control) so that the waveform on the oscilloscope screen be as shown in Figure 2-1.

#### **■ EINSTELLUNG DES REGELSCHALTKREISES** Einstellung des Wiedergabe-Umschaltpunkts

Meßinstrument	Oszílloskop
Betriebsart	Wiedergabe Bildsuchlauf-Knopfin Mittelposition
Eingelegtes Band	Abgleichband (VROCPSV)
Prüfpunkt	Kanal 1; TP502 Kanal 2; Video- Ausgangsanschluß (Kanal 1 Triggerimpuls- Anstiegsschalter auf (+), interner Triggerimpuls am Kanal 1)
Einstellpunkt	R740 (Phasengenerator/mono- stabile Multivibrator- Steuerung)
Spezifikation	6,5 ± 0,5H

- 1. Das Abgleichband (VROCPSV) einlegen und das Gerät auf Wiedergabe schalten.
- 2. Den Bildsuchlauf-Knopf in die Mittelposition bringen.
- 3. R740 (Phasengenerator/monostabile Multivibrator-Steuerung) so einstellen, daß die wellenform am Oszilloskop jener in Abbildung 2-1 entspricht.



CH-1: 2V/div.50usec/div

Kanal 1; 2V/Teilung 50usec/Teilung

CH-2; 1V/div 50 µsec/div

Kanal2; 1V/Teilung 50µsec/Teilung

Figure 2-1. Abbildung 2-1.

#### Precaution in adjusting the X-position

Measuring instrument	Oscilloscope
Mode	Playback •
Tape used	Alignment tape (VROCPSV)
Test point	CH-1; TP502 (Head Switching Pulse) CH-2; Pin
Adjusting point	
Specification	T = 30.58msec.

- 1. Insert the alignment tape (VROCPSV) and put the unit in the playback mode.
- 2. Set the tracking button to the center position.
- 3. Make sure that the waveform on the oscilloscope screen be as shown in Figure 2-2.

#### Vorsichtmaßnahmen bei der Einstellung der X-Position

Oszilloskop		
Wiedergabe		
Abgleichband (VROCPSV)		
Kanal 1; TP502 (Kopfschaltimpuls) Kanal 2; Stift ③des IC701 (Wiedergaberegler) (Kanal 1, Oszilloskoptrigger S)		
T = 30,58 msec		

- Das Abgleichband (VROCPSV) einlegen und das Gerät in die Wiedergabe-Betriebsart schalten.
- Den Bildsuchlauf-Knopf in die Mittelposition bringen.
- 3. Sicherstellen, daß die Wellenformen am Oszilloskop-Bildschirm mit jenen in Abbildung 2-2 (Linke) identisch sind.

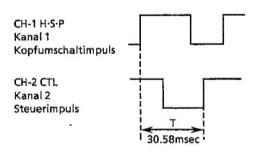


Figure 2-2. Abbildung 2-2.

• Test points layout/Prüfpunkt-Diagramm

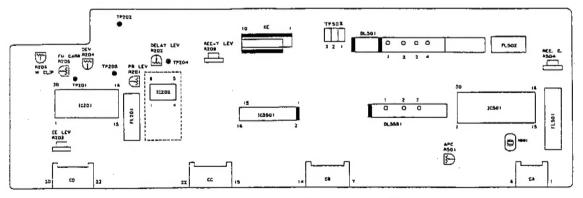


Figure 2-3. Y/C PWB Abbildung 2-3. Y/C LEITERPLATTE

# ■ ADJUSTMENT OF THE IF CIRCUIT Adjustment of the RF AGC

Measuring instrument	Oscilloscope Signal generator		
Mode	EE		
Input signal	Colour bar signal		
Test point	TP1551 (GND) TP1552 (Video Output)		
Adjusting point	VR001 (AGC control)		

- 1. Receive the colour bar signal (input field strength: 80 dBμ).
- Observe the video output terminal waveform on the oscilloscope. Adjust VR001 (AGC control) in the IF pack until the noise disappears from the oscilloscope screen and the waveform nearly comes into sync.

# ■ EINSTELLUNG DES ZWISCHENFREQUENZSCHALTKREISES Einstellung der automatischen Verstärkungsregelung (AGC)

Meßinstrument	Oszilloskop
	Signalgenerator
Betriebsart	EE
Eingangssignal	Farbbalkensignal
Prüfpunkt	TP1551 (Masse)
	TP1552 (Video-Ausgang)
Einstellpunkt	VR001 (Automatischer
	Verstärkungsregler)

- 1. Das Farbbalkensignal (Eingangsfeldstärke: 80 dBµ) empfangen.
- Die Sonde des Oszilloskops an den Video-Ausgangsanschluß anschließen. VR001 (Automatischer Verstärkungsregler) so einstellen, daß die Spitze des Horizontalsynchronisier-impulses nicht gestört ist.

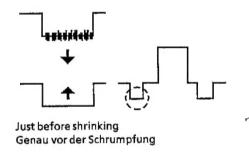


Figure 2-4. Abbildung 2-4.

#### • Test points layout/Prüfpunkt-Diagramm

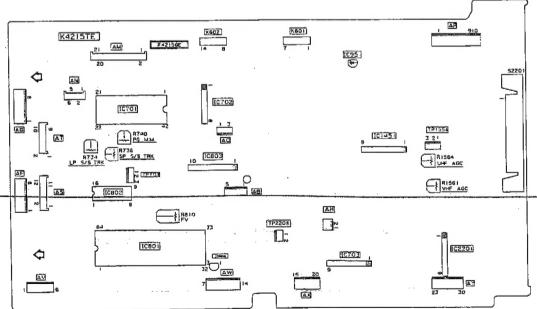
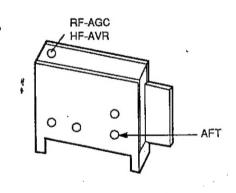


Figure 2-5, MAIN PWB Abbildung 2-5, HAUPT LEITERPLATTE

#### Adjustment of the AFT

Measuring instrument	Oscilloscope Signal generator
Mode	EE `
Input signal	PIF frequency uniwave Colour bar signal (70 dBµ)
Test point	TP1551 (GND) TP1552 (Video Output)
Adjusting point	T002 (AFT coil)
Specification	

- Receive the colour bar signal (input field strength: 70 dBμ).
- 2. Using the signal generator, feed the PIF frequency (38.9MHz) signal (sinewave) to the tuner IF output terminal.
- Set the tuning switch to the VHF or UHF position.
   Keep the tuning button (+) or ( ) depressed until the beating on the oscilloscope screen be minimum.
- Set the tuning switch on the normal position. Adjust T002 (AFT coil) so that beating on the oscilloscope screen be minimum.



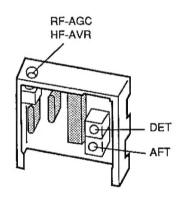
(VC-A51GM/VC-A51YM))

Figure 2-6. IF-Module
Abbildung 2-6. ZF-Modul

# Einstellung der automatischen Feinabstimung (AFT)

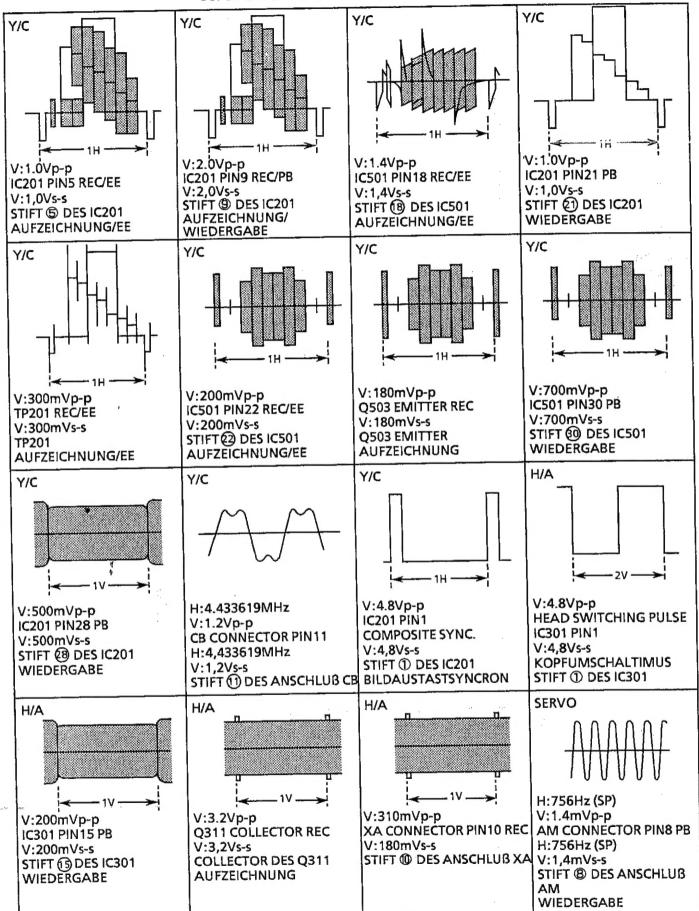
Meßinstrument	Oszilloskop Signalgenerator
Betriebsart	EE
Eingangssignal	Bild-ZF "Uni-Welle" Farbbalkensignal (70 dBµ)
Prüfpunkt	TP1551 (Masse) TP1552 (Video-Ausgang)
Einstellpunkt	T002 (Feinabstimm- automatikspule)
Spezifikation	

- 1. Das Farbbalkensignal (Eingangsfeldstärke: 70 dBu) empfangen.
- Mit dem Signalgenerator das Bild-ZF-Signal (38,9MHz) (Sinuswelle) dem ZF-Ausgangsanschluß des Tuners zuführen.
- Den Abstimmschalter auf VHF oder UHF stellen. Die Abstimmtaste (+) oder (-) gedrückt halten, bis die Überlagerung am Oszilloskop-Bildschirm dem Minimalwert entspricht.
- Den Abstimmschalter in die Normalposition bringen. T002 (Feinabstimmautomatikspule) so einstellen, daß die Überlagerung am Oszilloskop-Bildschirm dem Minimalwert entspricht.

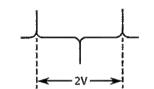


(VC-A51SM)

## **WAVE FORMS / WELLENFORMEN**

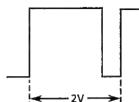






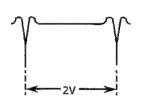
V:1.2Vp-p (SP MODE) IC701 PIN42 PB V:1,2Vs-s (SP-BETRIEBSART) STIFT ② DES IC701

#### **SERVO**



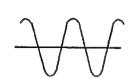
V:4.6Vp-p IC701 PIN33 PB V:4,6Vs-s STIFT ③ DES IC701 WIEDERGABE

#### **SERVO**



V:0.6Vp-p IC701 PIN4 PB V:0,6Vs-s STIFT @ DES IC701 WIEDERGABE

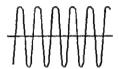
#### **SERVO**



H:600Hz V:1.2Vp-p IC701 PIN8 PB H:600Hz V:1,2Vs-s STIFT ® DES IC701 WIEDERGABE

#### **AUDIO**

WIEDERGABE



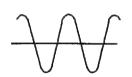
H:70 ± 5kHz V:7.5mVp-p TP601(+), TP602(-) REC H:70 ± 5kHz V:7,5mVs-s TP601(+), TP602(-) AUFZEICHNUNG

#### **AUDIO**



H:1kHz V:54mVp-p K602 P!N14 REC/PB H:1kHz V:54mVs-s STIFT (4) DES K602 AUFZEICHNUNG/ WIEDERGABE

#### **AUDIO**



H:1kHz
V:1.6mVp-p
MH CONNECTOR PIN1
PB
H:1kHz V:1,6mVs-s
STIFT ① DES ANSCHLUB
MH
WIEDERGABE

### SCHEMATIC DIAGRAM / SCHEMATISCHER SCHALTPLAN

#### IMPORTANT SAFETY NOTICE:

BE SURE TO USE GENUINE PARTS FOR SECURING THE SAFETY AND RELIABILITY OF THE SET. PARTS MARKED WITH "A" AND PARTS SHADED (IN BLACK) ARE ESPECIALLY IMPORTANT FOR MAINTAINING THE SAFETY AND PROTECTING ABILITY OF THE SET.

BE SURE TO REPLACE THEM WITH PARTS OF SPECIFIED PART NUMBER.

#### WICHTIGER SICHERHEITSHINWEISE:

IM INTERSSE DER SCHERHEIT UND ZUVERLÄS-SIGKEIT SOLFTEN DIE ORIGINALTEILE IMMER VERWENDET WERDEN. S 284 A 485

DIE MIT " A " BEZEICHNETEN BZW. (SCHWARZ) GESCHATTETEN TEILE SIND BESONDERS WICHTING SOWHOL FÜR DIE SIECHERHEIT ALS AUCH FÜR DIE SICHERE LEISTUNG.

BEIM AUSTAUSCH BITTE IMMER DIE TEILE, WIE VON DEN NUMMERN VORGESCHRIEBEN, VER-WENDEN.

#### SAFETY NOTES:

- 1. DISCONNECT THE AC PLUG FROM THE AC **OUTLET BEFORE REPLACING PARTS.**
- 2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

#### SICHERHEITSHINWEISE:

- 1. VOR AUSWECHSELN VON TEILEN DEN NETZ-KABELSTECKER AUS DER NETZSTECKDOSE ZIEHEN.
- 2. KÜHLKÖRPER VON HALBLEITERN SOLLTEN BEI BETRIEB DES CHASSIS ALS MÖGLICHE URSACHEN ELEKTRISCHER SCHALÄGE BETRACHTET WERDEN.

#### NOTES:

- 1. The unit of resistance "ohm" is omitted (k = 1000 ohm, M = 1 Meg ohm.
- 2. All resistors are 1/8 watt, unless otherwise noted.
- 3. The unit of capacitance "F" is omitted ( $\mu = \mu F$ ,  $p = \mu \mu F$ ).
- 4. The values in parentheses are the ones in the PB mode: the values without parentheses are the ones in the REC mode.

#### **VOLTAGE MEASUREMENT CONDITIONS:**

- 1. DC voltages are measured between points indicated and chassis ground by VTVM, with AC230V/50Hz supplied to unit and all controls are set to normal viewing picture unless otherwise noted.
- 2. Voltages are measured with 10000µV B & W or colour signal.

WAVEFORM MEASUREMENT CONDITIONS: 10000μV 87.5 percent modulated colour bar signal is fed into tuner.

#### ANMERKUNGEN:

- 1. Die Wiederstandseinheit "Ohm" wird weggelassen (k = 1000 Ohm, M = 1 Megohm).
- 2. Alle Wiederstände haben 1/8 Watt, sofern nicht anders angegeben.
- 3. Die Kapazitätseinheit "F" wird weggelassen (µ  $= \mu F$ ,  $p = \mu \mu F$ ).
- 4 Die in Klammern gesetzten Werte werden in der Wiedergabe-Betriebsart erhalten; die Werte ohne Klammern werden in der Aufnahme-Betriesart erhalten.

#### SPANNUNGSMESSBEDINGUNGEN:

- 1. Gleichspannungen werden zwischen den angegeben Punken und der Chassis mit Hilfe eines Röhrenvoltmeters gemessen, wobei dem Gerät 230 V Netzstrom (50 Hz) zugeführt wird und alle Bedienungselemente auf ein normales Bild eingestellt sind, sofern nicht anders angegeben.
- 2. Spannungen werden mit einem 10000µV-Schwarzweißoder Farbsignal gemessen.

#### WELLENFORMMESSBEDINGUNGEN:

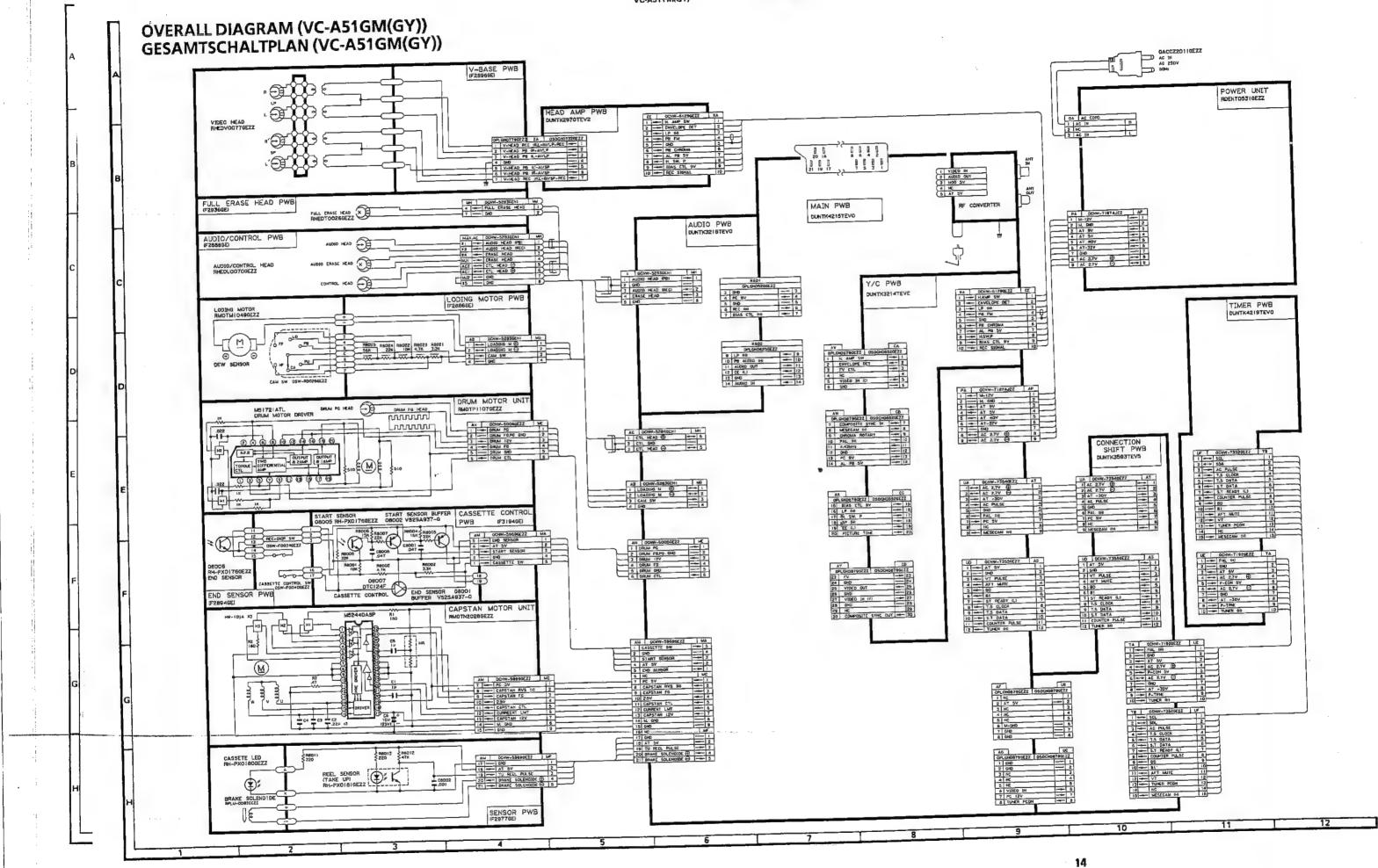
Ein um 87,5% moduliertes 10000µV-Farbbalkensignal wird dem Tuner zugeleitet.

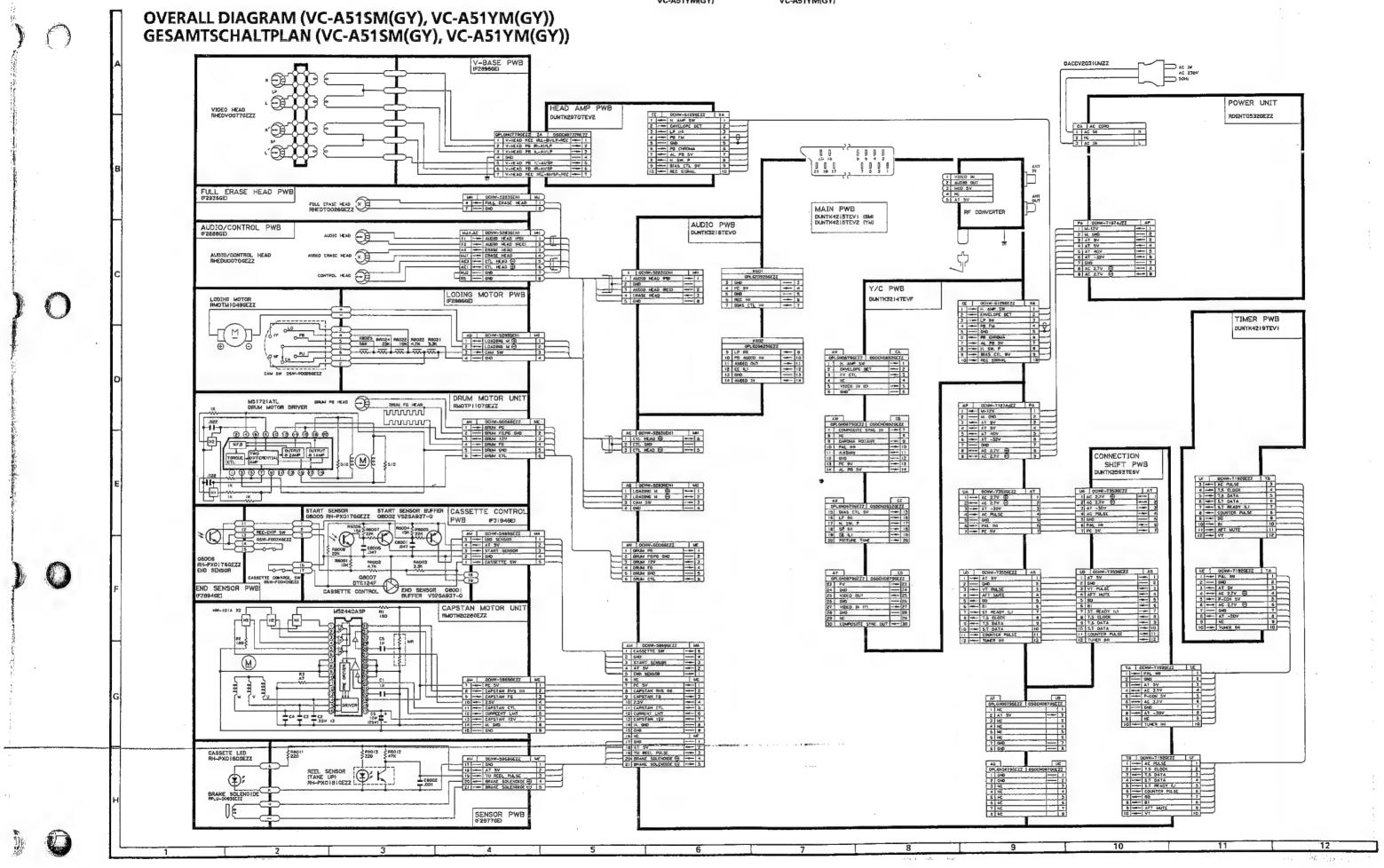
#### CAUTION:

This circuit diagram is original one. Therefore there may be a slight difference from yours.

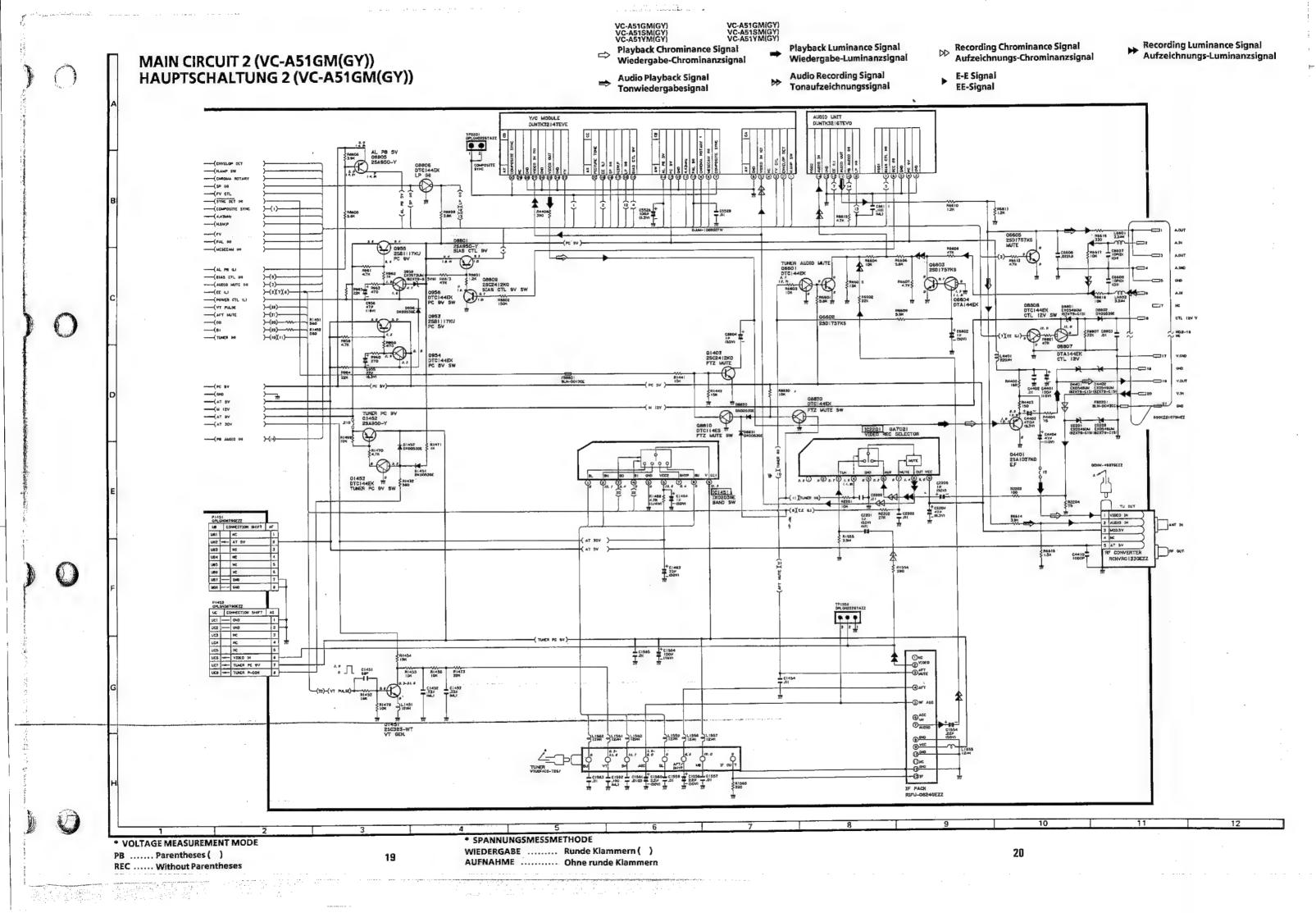
#### ANMERKUNG:

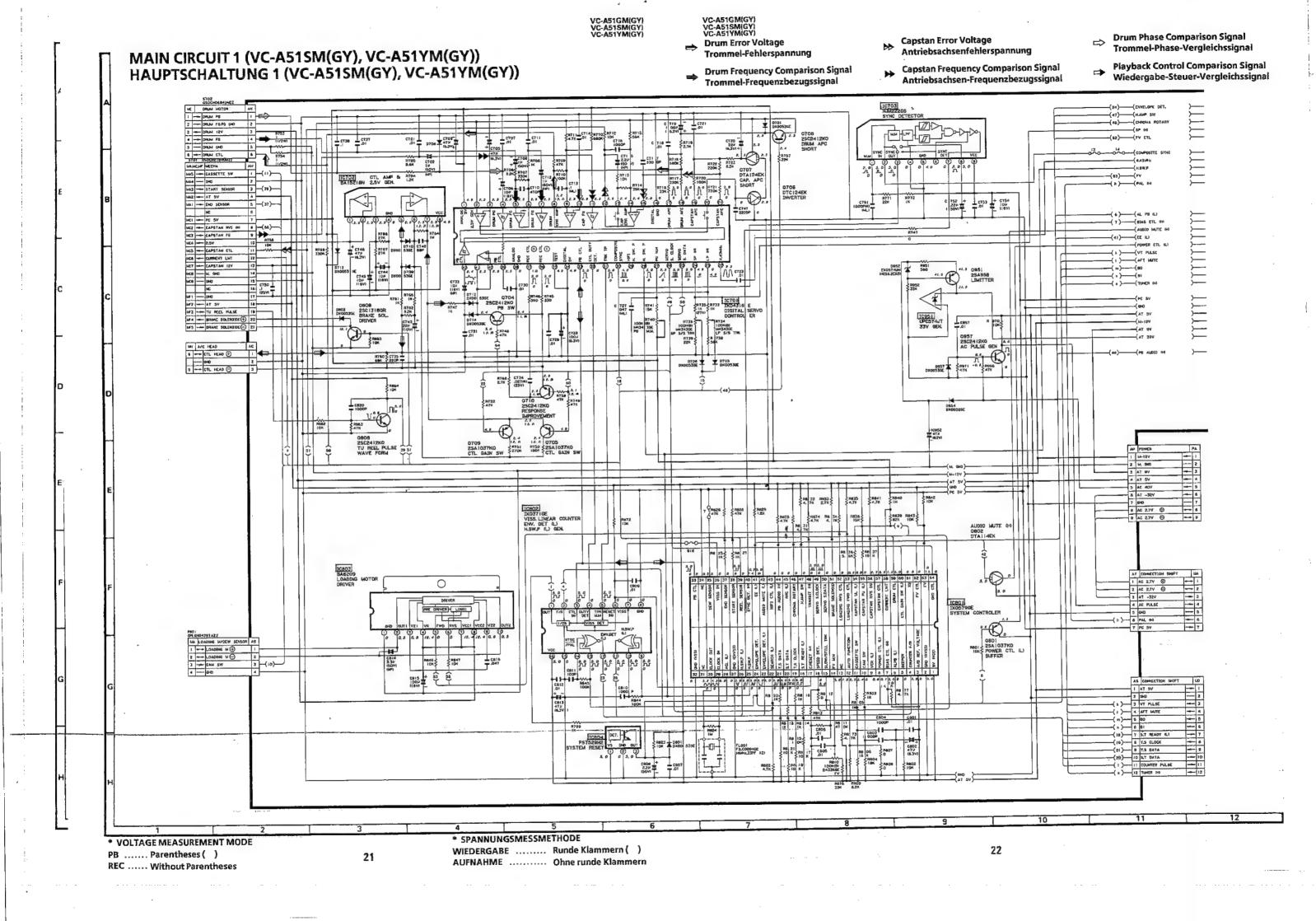
Dieses Leitungsschema ist das originale. Daher kann es von ihrem Leitungsschema etwas verschieden sein.

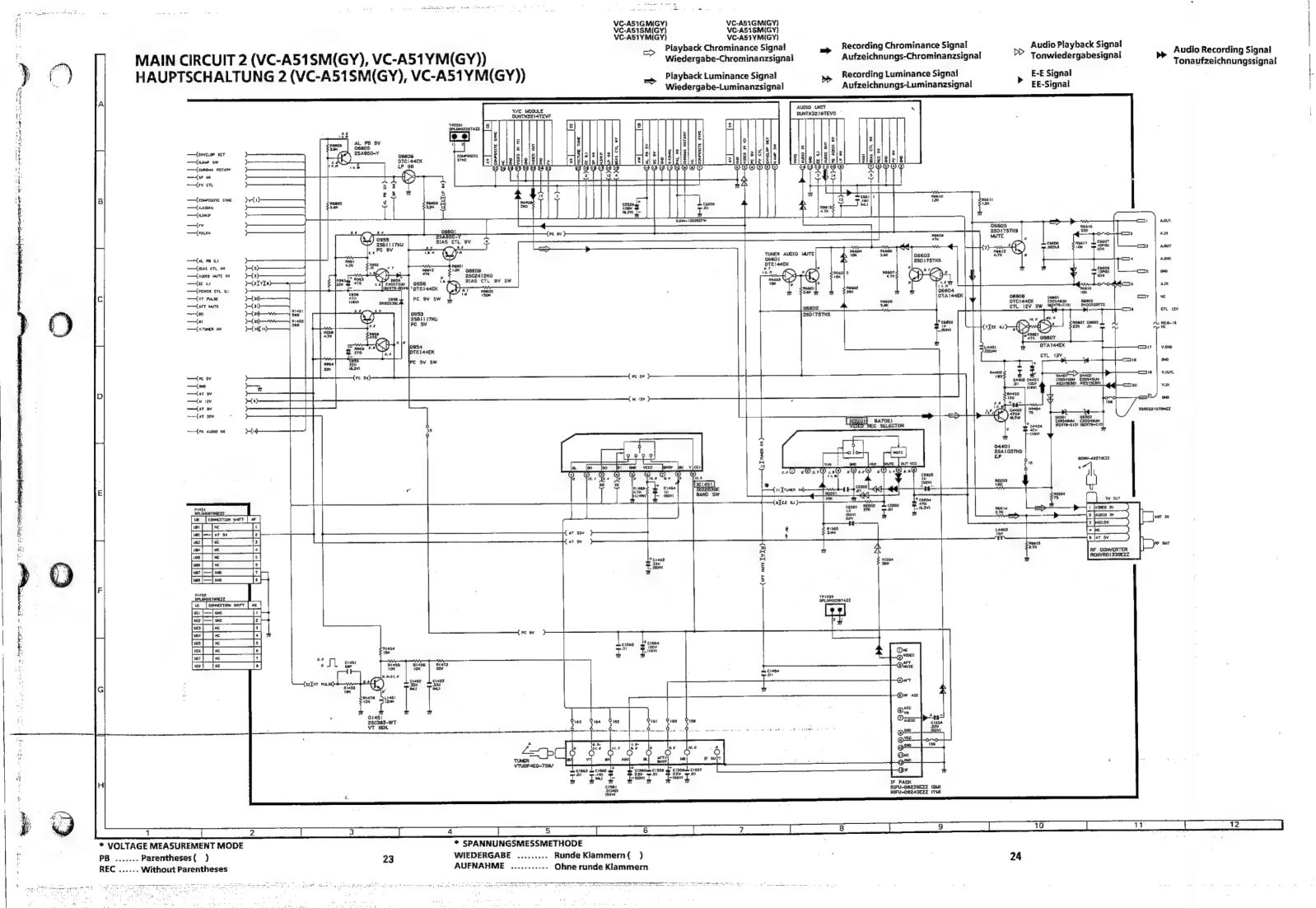


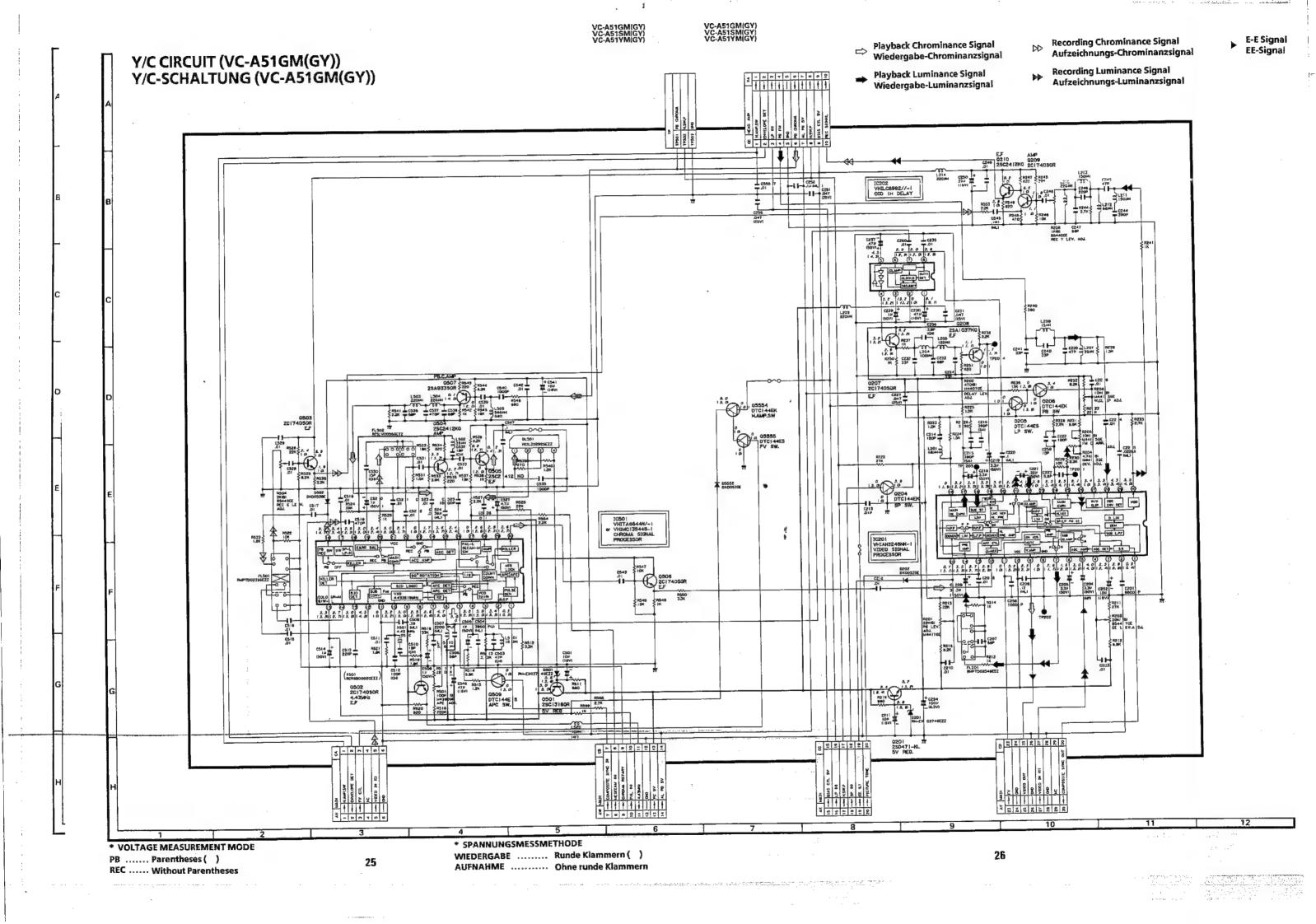


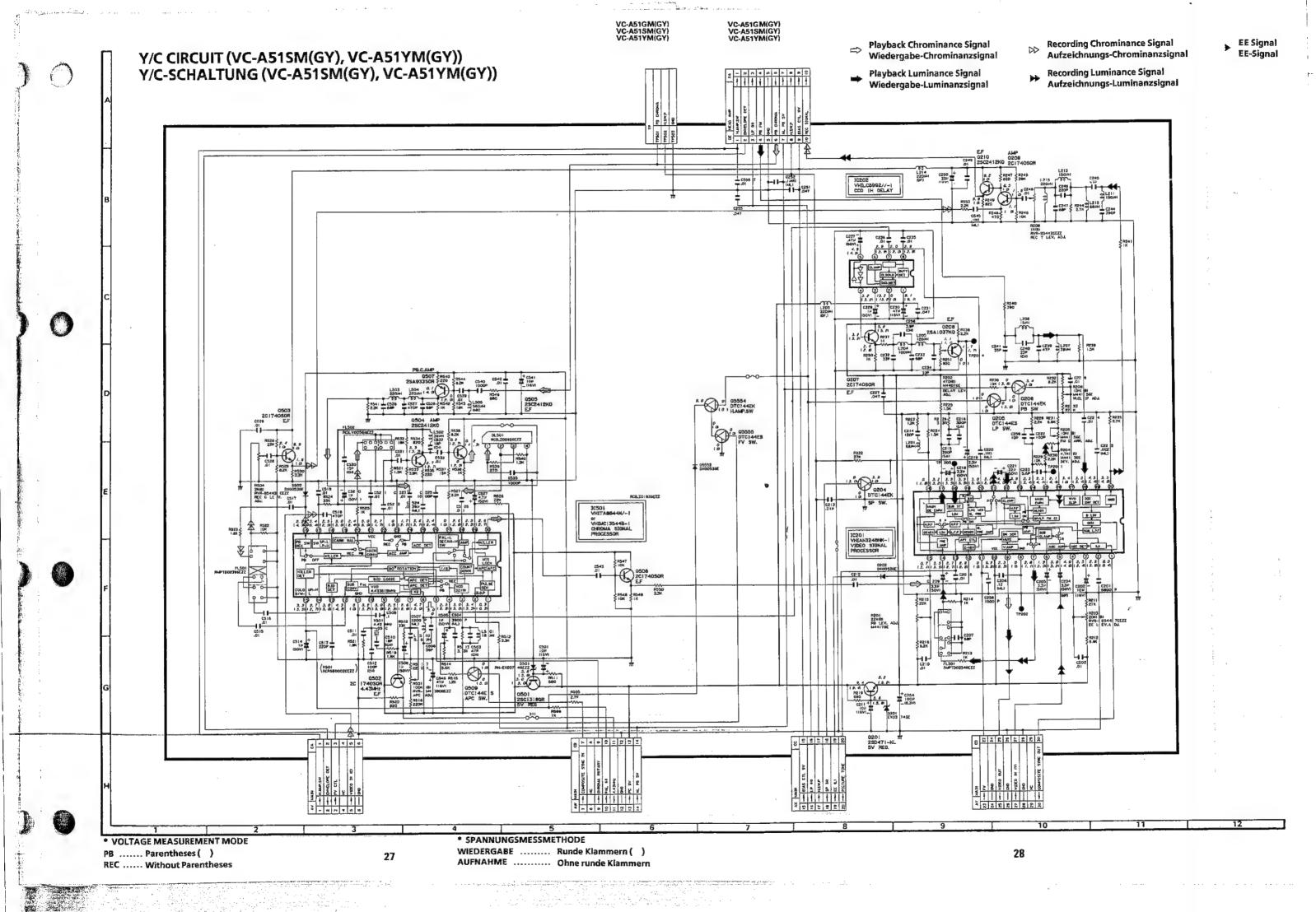
Drum Phase Comparison Signal Trommel-Phase-Vergleichssignal Capstan Error Voltage **Drum Error Voltage** MAIN CIRCUIT 1 (VC-A51GM(GY))
HAUPTSCHALTUNG 1 (VC-A51GM(GY)) Antriebsachsenfehlerspannung Trommel-Fehlerspannung Playback Control Comparison Signal Wiedergabe-Steuer-Vergleichssignal **Capstan Frequency Comparison Signal Drum Frequency Comparison Signal** Antriebsachsen-Frequenzbezugssignal Trommel-Frequenzbezugssignal || C702 | CTL AMP & R704 | BA|| 52|| 8N | 2.5V || GEN, | 1.2K HOH \* SPANNUNGSMESSMETHODE \* VOLTAGE MEASUREMENT MODE WIEDERGABE ...... Runde Klammern ( ) 18 PB ...... Parentheses ( ) 17 AUFNAHME ..... Ohne runde Klammern REC ..... Without Parentheses

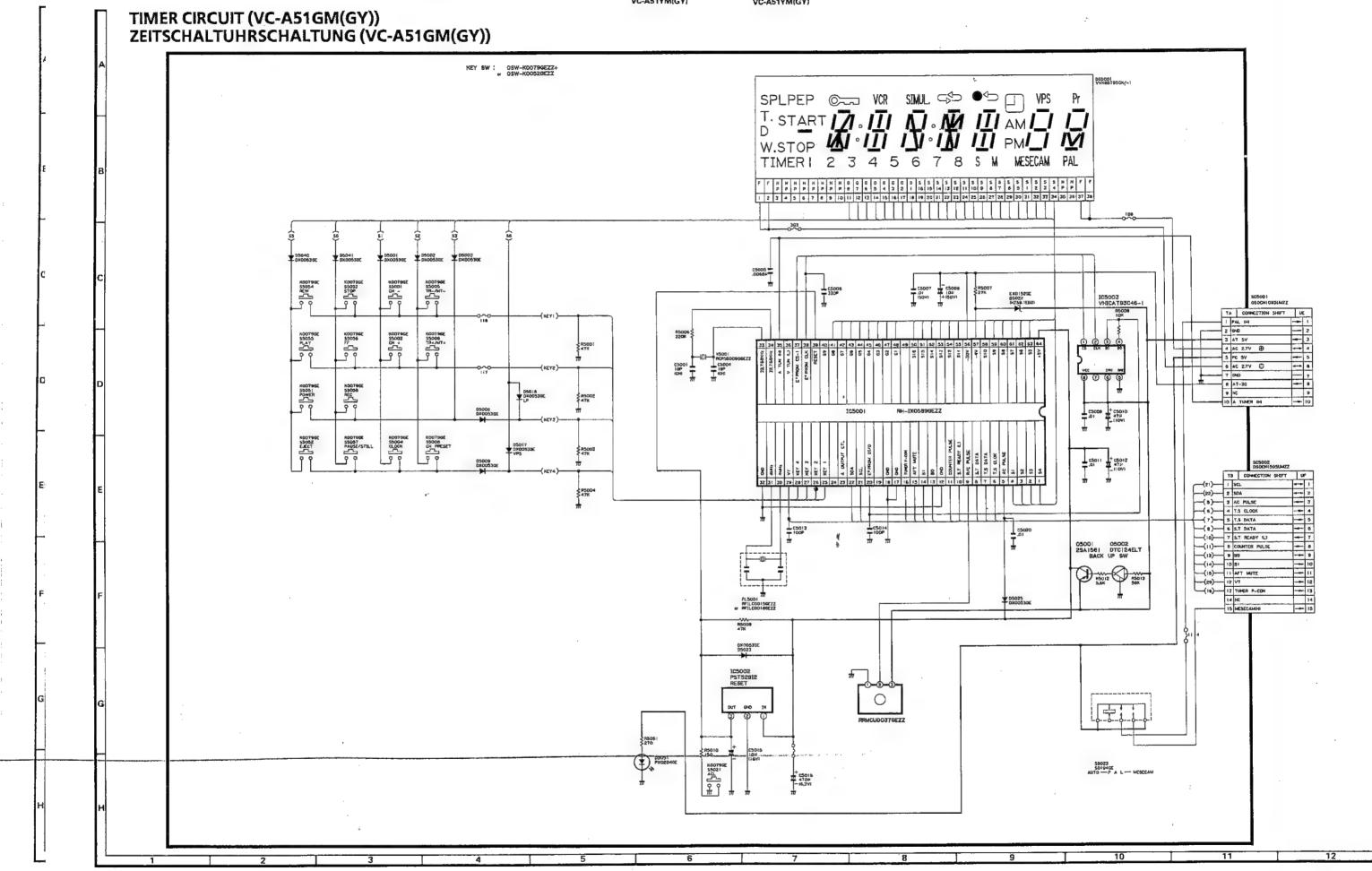


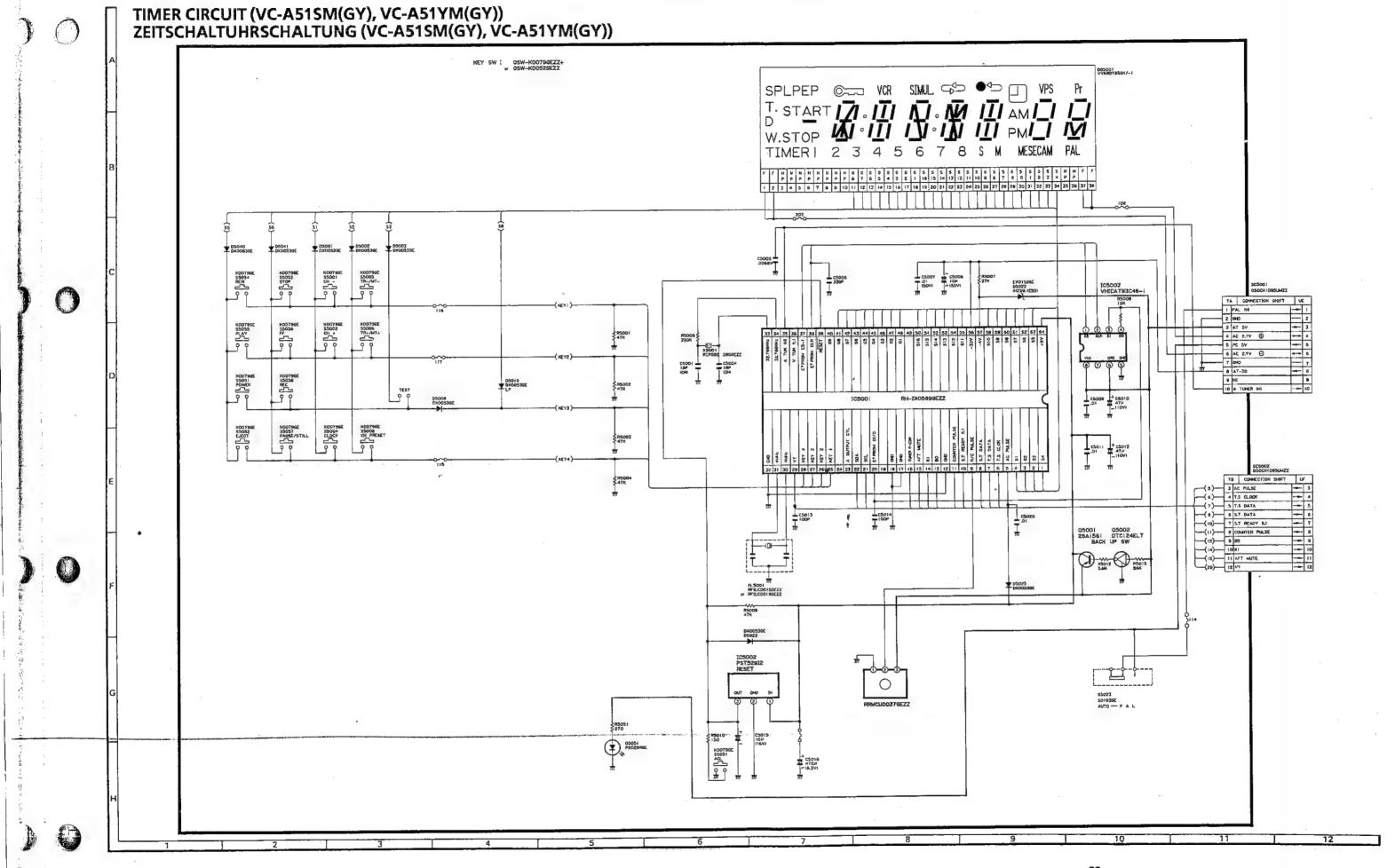










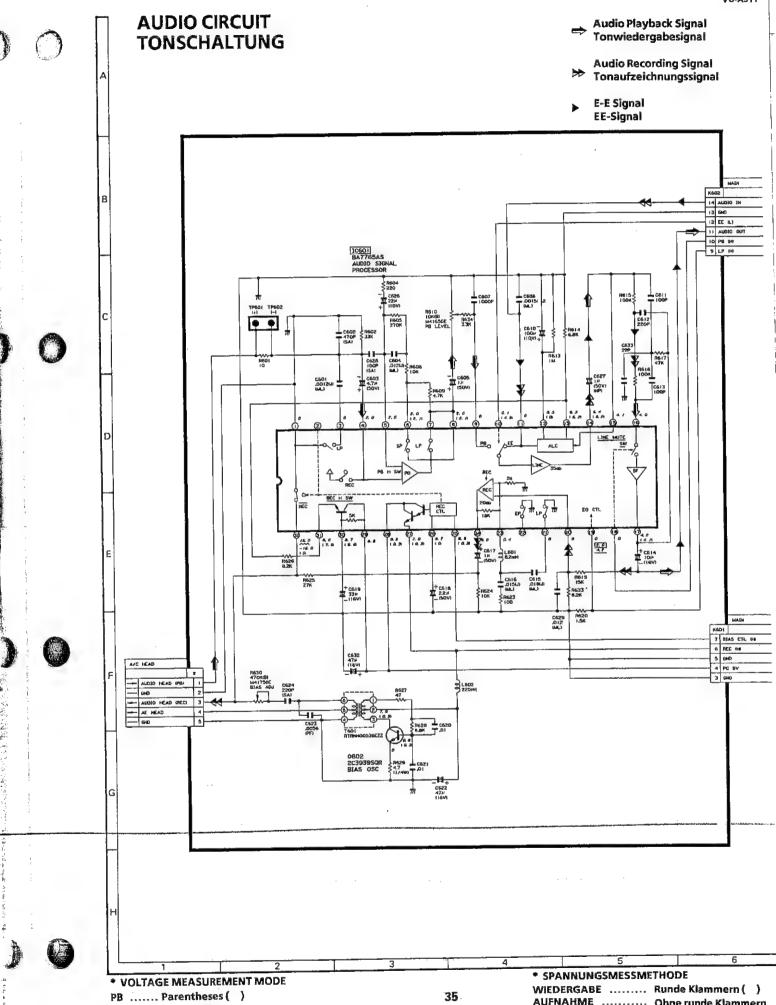


AUFNAHME ..... Ohne runde Klammern

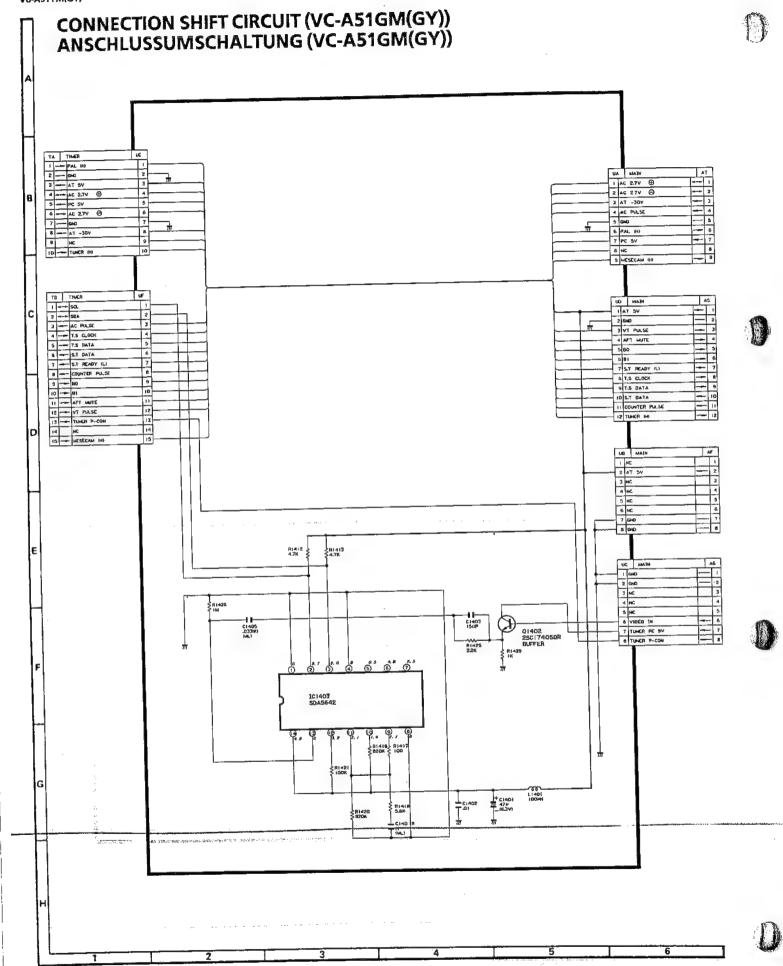
33

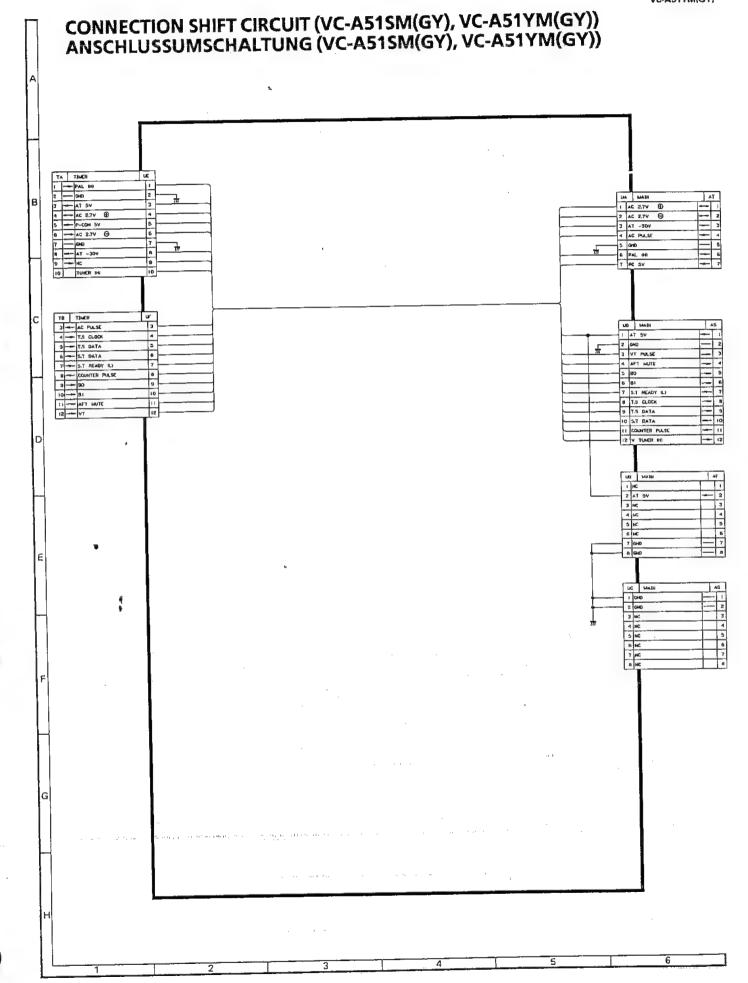
**REC ..... Without Parentheses** 

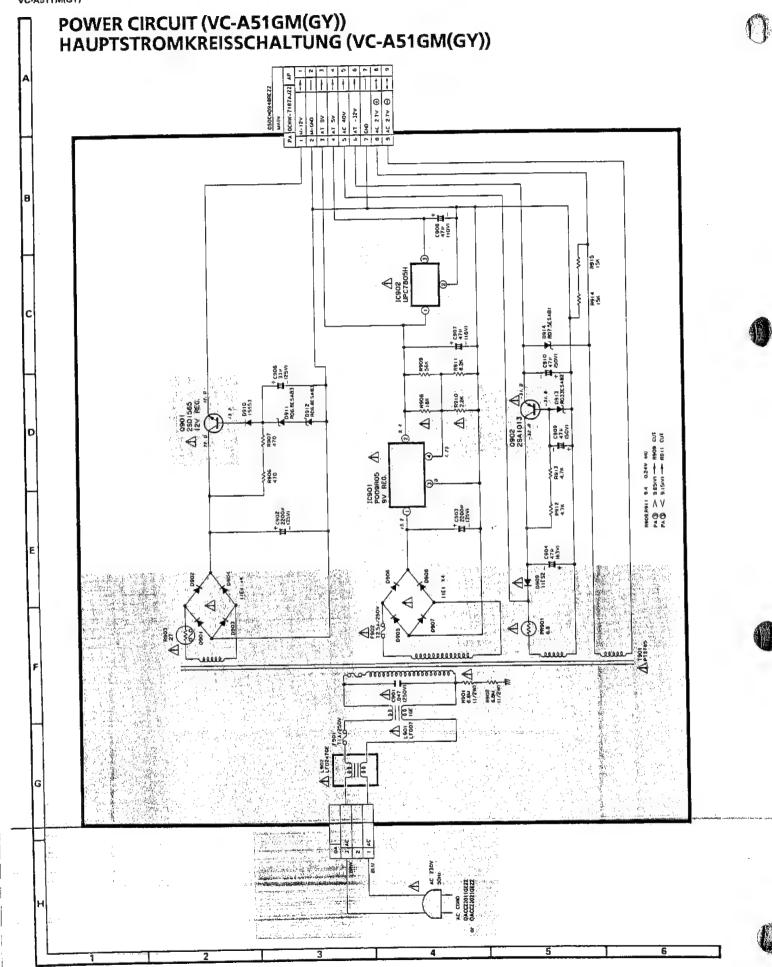
AUFNAHME ..... Ohne runde Klammern

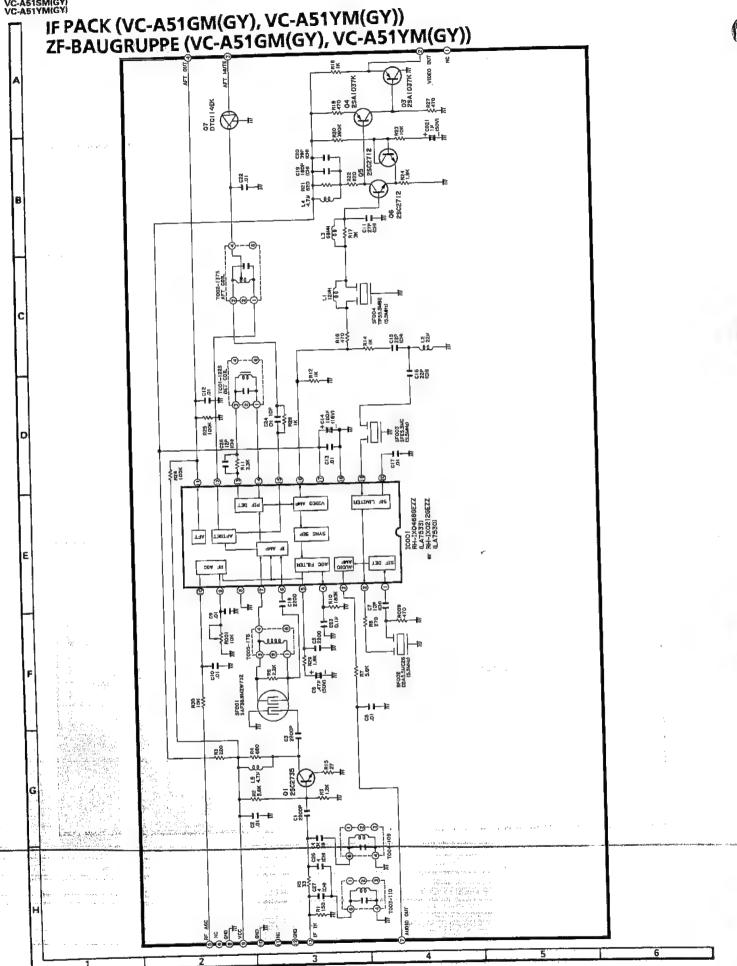


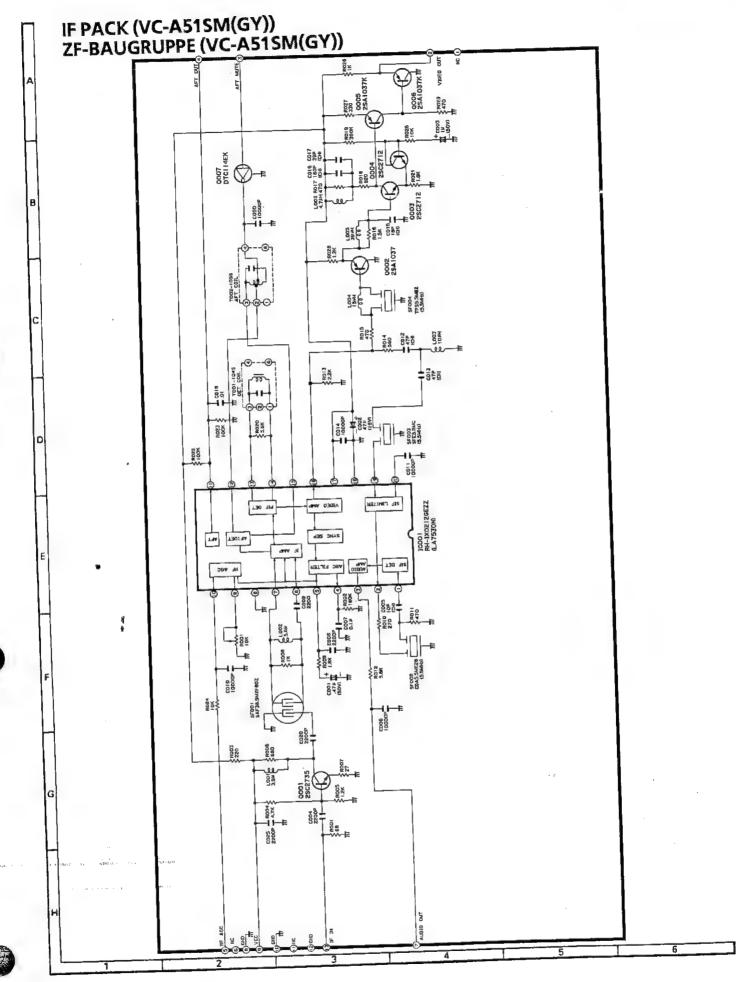
**REC ..... Without Parentheses** 



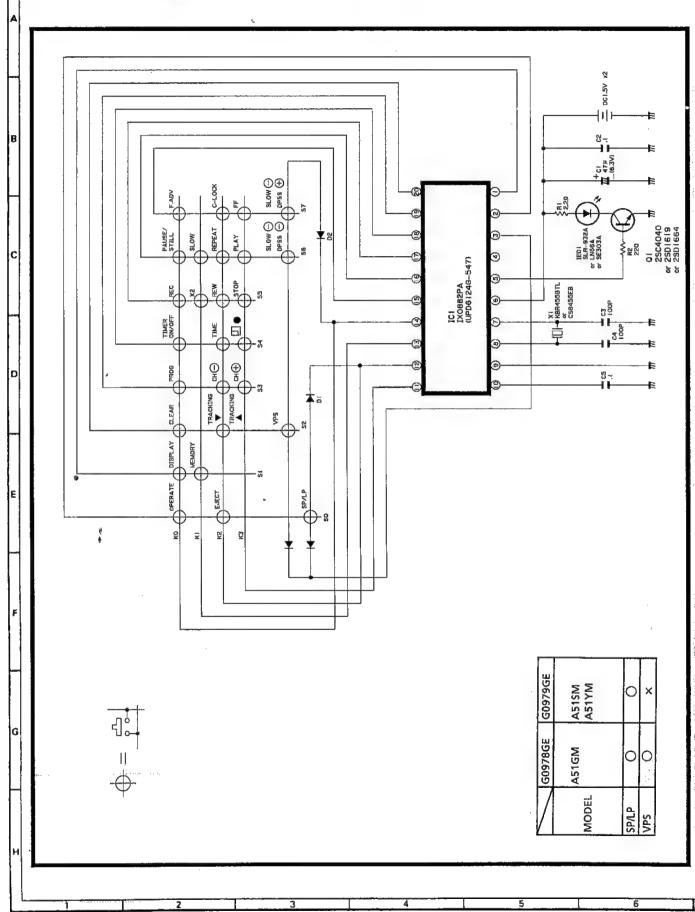


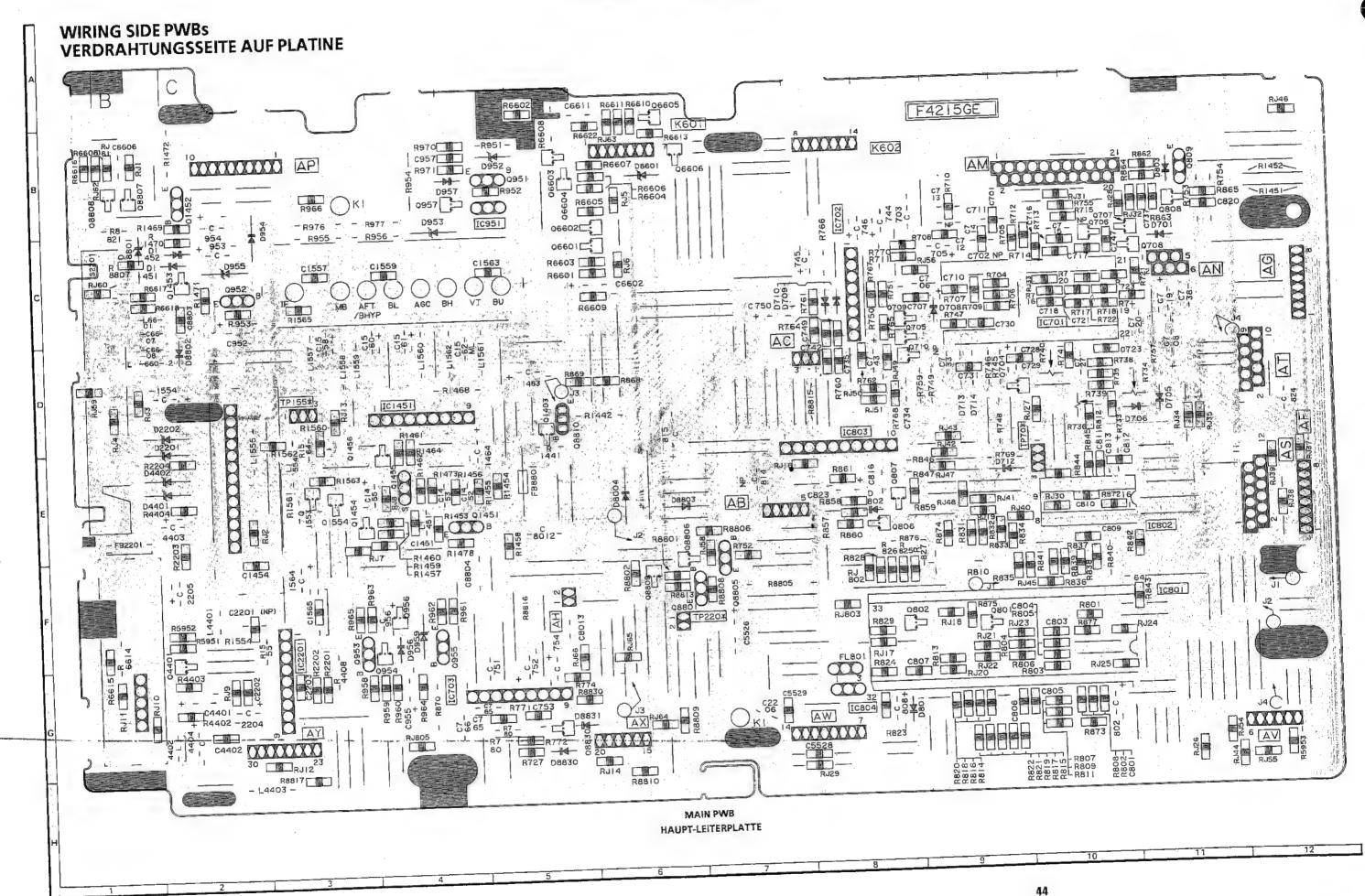


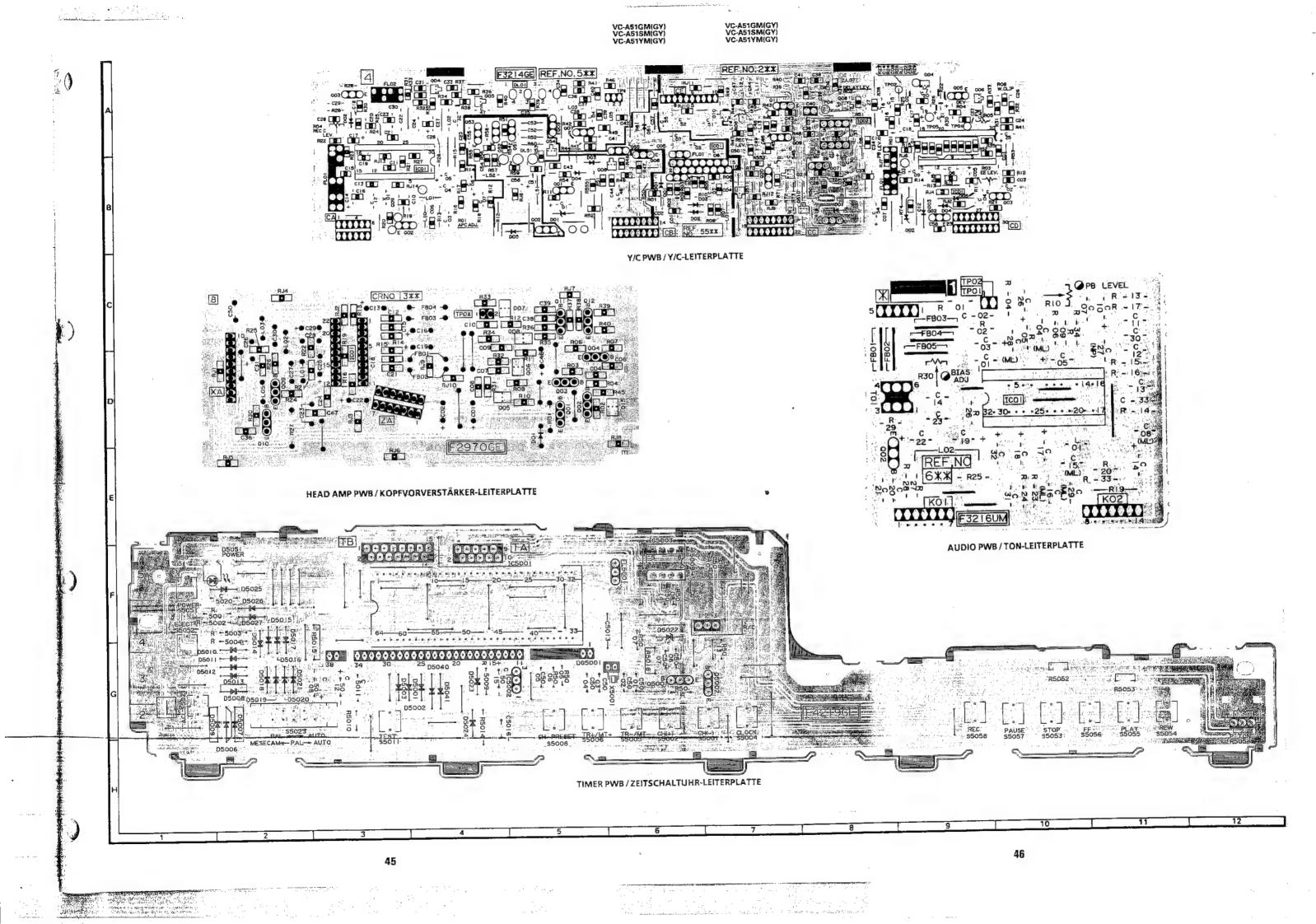


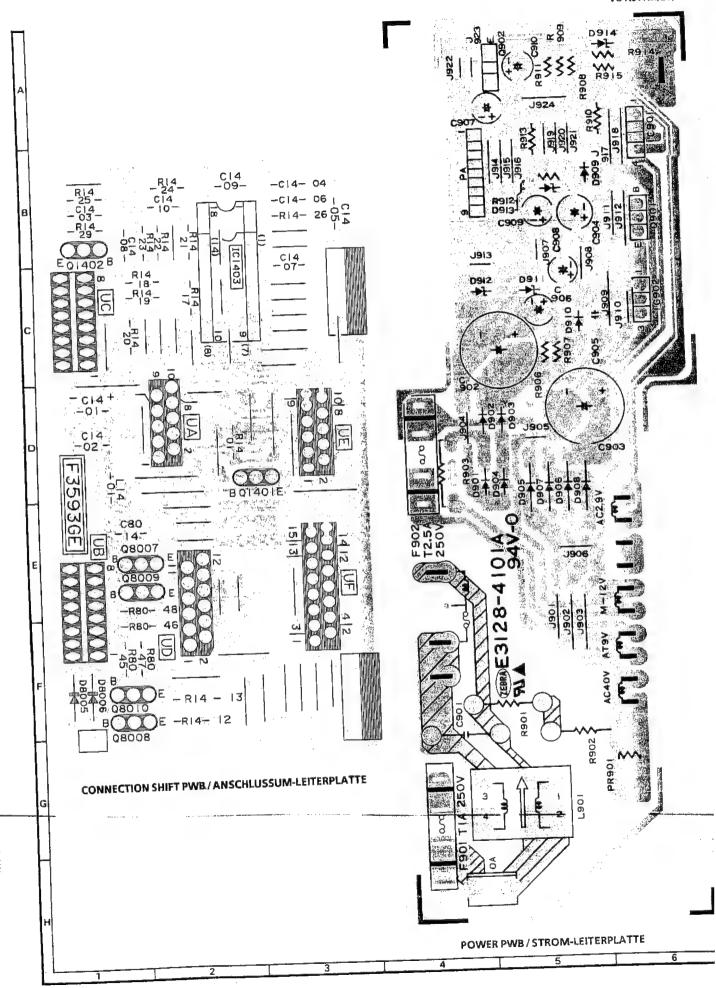


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# REPLACEMENT PARTS LIST PARTS REPLACEMENT

Many electrical and mechanical parts in video cassette recorder have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by A and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

# "HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER

2. REF. NO.

3. PART NO.

4. DESCRIPTION

5. PRICE CODE

MARK: SAFETY RELATED PARTS

**★MARK: SPARE PARTS-DELIVERY SECTION** 

PWB ASSEMBLY IS NOT REPLACEMENT ITEM

Ref. No.

Part No.

Description

Code

## MAIN (SERVO, SYSTEM-CONTROL, TUNER) CIRCUIT

DUNTK4215TEV0 - Main Board Assembly

(VC-A51GM(GY))

Main Board Assembly DUNTK4215TEV1 -

(VC-A51SM(GY))

DUNTK4215TEV2 - Main Board Assembly

(VC-A51YM(GY))

Ref. No.	Part No.	*	Description	Code
Q705,	VS2SA1037KQ-1	J	2SA1037KQ	AA
709,				1
801,				
4401				
Q706	VSDTC124EK/-1	J	DTC124EK	AB
Q707	VSDTA124EK/-1	J	DTA124EK	AB
Q802	VSDTA114EK/-1	j		AB
Q809	VS2SC1318QR-1	j		AA
Q951	VS25A988///1E		25A988	AB
Q953,	V\$2SB1117KU1E	J	2SB1117KU	AE
955				
Q954,	VSDTC144EK/-1	J	DTC144EK	AB
956,				
1453.			(VC-A51GM(GY))	
6601	,			
8806	,			
8808	i.			
8830			(VC-A51GM(GY))	ΑE
Q1451			J 2SC383TM	AD
Q1452	, VS25A950-Y/1	Έ	J 2SA950-Y	AD
			(VC-A51GM(GY))	
8801	1,			
880			1 2SD1757K\$	AC
Q660	2, VS25D1757KS	- 1	J 2SD1757KS	
660	3,			
660		4	J DTA144EK	AC
Q660	·	- 1	1 DIMITTEN	
880		<i>t</i> . 4	J DTC114ES	AB
Q881	0 VSDTC114ES	- 1	(VC-A51GM(GY))	
11			/40 Mar amila 131	
71				

ľ	IC701	RH-iX0431GEZZ	J	AS
11	IC701		J	AD
11	IC702		J ·	. AG
11	IC801	•	j	AW
Į	1C801	RH-IX0371GEZZ	j	AL
1	1.55	• • • • •	ا	AG
J	1C803	VHIPST529H2-1	Ĭ	AD
٦,	1C804	VHIUPC574JT-1	J	AC
	IC951		1	AE
1	IC1451	RH-iX0203GEZZ	-	AE
	IC2201	VHIBA7021//-1	J	<b>7</b> L
1	`			
١	\			
١	Ц			

INTEGRATED CIRCUITS

,	TRANSISTORS						
Q	704,	V\$2\$C2412KQ-1	J	2SC2412KQ	AA		
	708,						
	710,						
	808,						
	957,			*** **********************************			
	1403,			(VC-A51GM(GY))			
1	8809						

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code		
DIODES					L6601,	VP-XF3R3K0000	J	3.3µH (VC-A51GM(GY))	AB		
D701,	RH-DX0053GEZZ	J 1	SS132	AA	6602			(VC-A51GM(GY))			
705,											
706,											
708,											
709,						CAPACITORS					
710,							_	4.45 501/ 201/	AC		
712,				- 1	C702,	VCE9EA1HW105M	J	1μF, 50V, 20%, Electrolytic (N.P.)	AC		
713,					712, 2201			Electrolytic (N.r.)			
714, 801,					C713,	VCQYTA1HM104K	J	0.1µF, 50V, 10%, Mylai	AC		
803,					1562,	VCQ11A11III110-IK		0., p., 000, 0,0,0,0,0,0			
956,					6611						
957,					C715	VCE9EA1HW225M	J	2.2µF, 50V, 20%,	AB		
1451,			(VC-A51GM(GY))					Electrolytic (N.P.)			
1452,			(VC-A51GM(GY))		C719,	VCEAGA0JW107M	J	100μF, 6.3V, 20%,	AB		
8802,					728			Electrolytic			
8830,			(VC-A51GM(GY))		C727	RC-QZZ473UMYK	U	0.047μF, 50V, 10%,	AB		
8831			(VC-A51GM(GY))		ll			Mylar			
D952	RH-EX0574UMZZ	-	HZS6.2EB3	AA	C733	VCE9EA1CW106M	J	10μF, 16V, 20%,	AC		
D954	RH-DX0052GEZZ	_	ERA15-02	AB				Electrolytic (N.P.)			
D959	RH-EX0573UMZZ		BZX79-B5V6	AA AA	C738	RC-KZ0011GEZZ		•	ΑΔ		
D2201,	RH-EX0546UMZZ	U	BZX79-C15	АМ	C750	RC-KZ0019GEZZ		0.1μF, 25V, Ceramic	AA AB		
2202,					C751	VCQYTA1HM102K	J	1000pF, 50V, 10%,	Ab		
4401,					C765	RC-QZY392UMYK		Mylar 3900pF	AA		
4402, 8801			(VC-A51GM(GY))		(/65	KC-QZ1392UNITK		(VC-A51GM(GY))	~~		
8001			(0.20.00.00.00.00.00.00.00.00.00.00.00.00		C814	VCE9EA1HW335M	J	3.3µF, 50V, 20%,	AB		
	•				C815	VCEAGA1CW107N	ı	Electrolytic (N.P.) 100 uF, 16V, 20%,	AB		
					1			Electrolytic			
	CON	TRO	LS		C816	RC-KZ0017GEZ	Ζj	0.047µF, Ceramic	AA		
R734,	RVR-M4343GEZZ	j	100k(B) LP Slow/Still Tracking Adj.	AB	C1452,	RC-QZA334UMYK	U	Capacitor	A		
736,			100k(B) SP Slow/Still		C1564,	VCEAEA1CW107N	l J	100µF, 16V, 20%,	A		
:			Tracking Adj.		4401		·	Electrolytic 700 / 700	. 22		
740			100k(B) Playback Phas	е	C4403	VCEA2A0JW477N	V I	, ,	Al		
			Generator		138		1	Electrolytic			
			MM Adj.		C5526	VCEAEA0JW107	ΛJ	100μF, 6.3V, 20%,	A		
R810	RVR-B4336GEZZ	J	100k(B) False Vertical	AD		0.07700011847	1/ 1	Electrolytic	А		
			Sync Adj.		C6606	RC-QZZ223UMY	ΚL	υ.υ22με,	А		
<i>i</i>			•								
							107				
	COILS AND TRANSFORMER							ORS			
FL801	RFILC0094GEZZ	Z	Filter	AC	11	VRN-RA2BK273	F.	27k ohm, 1/8W, 1%,	A		
L1451	VP-XF120K000	0 ]	12µH	AB	767			Metal Film			
L1555,	VP-DF120K000	0 1		)) AB				•			
1557,			(VC-A51GM(GY))			•					
1559	, !		(VC-A51GM(GY))					11-0116			
1563			(VC-A51GM(GY))			MISCE	LLA	NEOUS	<u>: :</u>		
. 1562 L4401		0 1	=	AB		RIFU-0623GEZ	Z	] ILLOCK	. 4 5		
	2. 1211/2/211000			AB	- 11			(VC-A51SM(GY))	POR		

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Cod
	RiFU-0624GEZZ	J	IF Pack		Q207,	V\$2C1740SQR1E	j	2SC1740SOR	AC
			(VC-A51GM(GY)/		209,		-		
			VC-A51YM(GY))		502,				
	VTUOF4EO-726	-	Tuner		503,				
	RCNVR0113GEZZ			BA	506				
	QPLGN0228TAZZ	J	Plug, 2 pin	AB	Q208	V\$2\$A1037KQ-1	J	2SA1037KQ	AA
			(TP2201—2202)		Q210,	V\$25C2412KQ-1	J	2SC2412KQ	AA
	QPLGN0228TAZZ	J	O. 1 4	AB	504,				
			(VC-A51SM(GY)/	-	505				
			VC-A51YM(GY))		Q501	V\$2\$C1318QR-1	J	2SC1318QR	AA
	QPLGN0328TAZZ	Ĵ	• .	AD	Q507	VS2SA933SQR1E	3	2SA933SQR	ΑB
			(TP15511553)	i					
			(VC-A51GM(GY))						
	QPLGN0328TAZZ	-		AD		1			
	QPLGN0428TAZZ		<b>■</b> 1	AB	1	INTEGRATE	D C	IRCUITS	
	QPLGN0679GEZZ		and the second second	AB	10201	VIII A NIO O CONTRA		<del></del>	<del></del>
	QPLGN0879GEZZ	J	31 - F	AB	IC201	VHIAN3248NK-1			ΑP
			(AG, AF, AW, AY)	ĺ	IC202	VHILC8992//-1	-		AK
	QPLGN0947REZZ			AB	IC501	VHITA8644N/-1	J		ΑP
	QSOCN0694UMZZ			AB		or			
	QSOCN0794UMZZ	U		AB		VHIMC13544B-1	J		ΑN
			(VC-A51SM(GY)/						
			VC-A51YM(GY))						
	QSOCN0944UMZZ	U							
			(VC-A51GM(GY))			DIODES ANI	D C	RYSTAL	
	QSOCN1294UMZZ			AD	D201,	RH-EX0374GEZZ	1		^^
	QSOCN2194UMZZ		Socket, 21 pin (AM)	AD	501	1.1037 40222	•		AA
	QSOCZ2197BMZZ		Socket, 21 pin	AK	D202,	RH-DX0053GEZZ	1	1SS132	AA
FB8801	RBLN-0013GEZZ	J	Ferrite Bead	AB	502,			133132	AA
Mm n n n n			(VC-A51GM(GY))		5552				
FB2201	RBLN-0043CEZZ	<b>j</b>		AB	X501	RCRSB0002CEZZ	j	Crystal, 4.43MHZ	АМ
			(VC-A51GM(GY))			•			7.171
						CONT	_		
	W.C. CI				R201	RVR-M4337GEZZ	J	22k(B) Playback	AB
	Y/C CII	(CI	UIT	- 4		or		Level Adj.	
	DUNTK3214TEVE		V/C Doord Assessed by			RVR-M4417GEZZ			AB
	DONINGZIATEVE		(VC-A51GM(GY))	_	R202		1	470(B) Delay Level Adj.	AB
	DUNTK3214TEVF					or			
	DOMINGETALENT		(VC-A51SM(GY)/	_ II	B202	RVR-M4407GEZZ			AB
			VC-A515W(GY)/		R203	RVR-B5447CEZZ		20k(B) EE Level Adj.	AB
			AC-WOLLINI(GL))		R204		J	4.7k(B) Deviation Adj.	AC
				- 11		Or BVD MAAAACETT			
					R205,		j ,	40(-/0) 500-	AB
		_			205	or	4.	10k(B) FM Carrier Adj.	AB
	TRANSI	STC	DRS	·	200	RVR-M4415GEZZ	, .	10k(B) White Clip Adj.	
Q201	VS2SD471-KL1E		2SD471-KL	ΔC	R208	RVR-B5442CEZZ		1k/R) Possed eve	AB
<u> </u>	VSDTC144EK/-1		DTC144EK						AB
C20#	V3D1C144EK/-1	J	D1C1446K	AB	R501	RVR-M4380GEZZ	j	Level Adj. 100k(B) APC Adj.	
									AC
206,			- Flore Mod		R504	. KVK-85443CF27		2k/R\ p	
5554	Vento144Fe/ 4**	to otto				RVR-B5443CEZZ	J	2k(B) Record Chroma	AB
206,	VSDTC144ES/-1	`J***				4100 to 3		2k(B) Record Chroma Level Adj.	AB

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Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
	COILS AN	D F	ILTERS			QSOCN0679GEZZ		Socket, 6 pin (CA, CC)	AC
DL501	RCILZ0292GEZZ		Delay Line	AP		QSOCN0879GEZZ	J	Socket, 8 pin (CB, CD)	AC
FL201	RMPTD0254GEZZ		Filter	AG					
FL501	RMPTD0239GEZZ		Filter	AG					
FL502	RCiLV0056GEZZ		Filter	ΑF					
L201,	VP-XF680K0000		68µH	AB					
212			•			TIMER	CIF	RCUIT	
L203, 214	VP-DF221K0000	J	220µН	АВ		DUNTK4219TEV0	4	Timer Board Assembly	
L204	VP-XF101K0000	J	100µH	AB	<b>  </b>			(VC-A51GM(GY))	
L205	VP-XF121K0000	J	120µH	AB		DUNTK4219TEV1	-	Timer Board Assembly	-
L207, 502	VP-XF390K0000	J	39µН	AB				(VC-A51SM(GY)/ VC-A51YM(GY))	
L208	VP-XF150K0000	3	15µH	AB					
L211,	VP-XF151K0000		150µH	ΑB					
213 L215,	VP-XF221K0000		220µН	AB		TRANS	IST	ORS	
	VP-XF221K0000	J	220µn	AB					
503	VD VETBOROOO		40auli	A.D.	Q5001	VS2SA1561Q/1E	J	2SA1561	AC
L501	VP-XF180K0000		18µH	AB	Q5002	VSDTC124ELT-1	J	DTC124ELT	AA
L504	VP-MK221K0000		220µH	AB					
L505	VP-MK561K0000		560µH	AB					
L510	VP-XF5R6K0000		5.6µH	AB			_		
L520	VP-XF100K0000	J	10µH (VC-A51GM(GY))	AB		INTEGRATE	D	CIRCUITS	
					IC5001	RH-iX0589GEZZ	j		AW
					IC5002	VHIPST52912-1	J		AD
:	CAPAC	ijŢ	ORS		IC5003	VHIBR93C46A-1	J	(VC-A51GM(GY))	AG
C204	VCE9EA1HW335M	j	3.3µF, 50V, 20%, Electrolytic (N.P.)	AB		. <del></del>			
C206	RC-QZY124UMYK	U	0.12µF,			DIODES AN	<u> </u>	CDVCTAI	
C220,	VCQYTA1HM104K			AC		DIODE2 AN	יט	LKYSTAL	
252,	or				D5001	RH-DX0053GEZZ	1	155132	AA
545,	RC-QZY104UMZZ	ш	0 13/F	AA	25001	MI DAGGGGGEE		155152	~~
0.0,	no de mondimen	_	(VC-A51GM(GY))	~~	5003,				
547			(10731011(01))		5008,				
C225	RC-QZA223TAYZ		0.022µF, 50V, 5%,	AB	5009,			(VC AF1CNACVA)	
CZZS	NC-QZAZZSTATZ	1		Ab				(VC-A51GM(GY))	
COEA	VICEA EAD DATA OTA		Mylar	A.D.	5016,			hie areas as as	
C254	VCEAEA0JW107M	J	100µF, 6.3V, 20%,	AB	5017,			(VC-A51GM(GY))	
CEA	DC 074000000000		Electrolytic		5023,				
C504	RC-QZA392UMYK			1	5025,				
C507	RC-QZA222TAYJ			1	5040,				
C509	RC-QZY394UMYK	U	•	AB	5041				
			(VC-A51GM(GY))		D5022	RH-EX0152GEZZ			AA
C509	RC-KZ0011GEZZ	j		AA	D5051	RC-PX0204GEZZ	J		AB
			(VC-A51SM(GY)/ VC-A51YM(GY))		X5001	RCRSB0090GEZZ	٦	Crystal	AA
<b>C</b> 524	RC-QZY393UMYK	U	0.039μF	AA	·				
						FIL.	ΓEF	R	
	MISCELL	A NI	EOUS		FL5001	RFiLC0115GEZZ	J	Filter	AC
_				A B		or RFiLC0118GEZZ	j	· ·	AC
	QPLGN0329TAZZ	ړ	Plug, 3 pin (TP501—503)	АВ			-	e Let 1	
	QPLGN1078GEZZ	J	Plug, 10 pin (CE)	AC				50	

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Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description C	ode
	CAPA	CIT	OR		Q303,	VS2SA933SQR1E	J	2SA933SQR	AB
C5016	VCEADA0JW477M	1	470μF, 6.3V, Electrolytic	АВ	304 Q305	VS2SC2412KQ-1	J	25C2412KQ	AA
					308 Q309	VS2SC1923-O1E	J	2SC1923(O)	AD
	MICCELL	41	FOLIC		Q310				AC
	MISCELL	An	15002		Q311	V\$2\$A1015Y/1E		2SA1015(Y)	AC
DG5001	VVK8BT99GK/-1	J	Fluorescent Display	ΑV	Q312	V\$2\$C1685QR-1	J	2SC1685QR	
	RRMCU0037GEZZ	J	Tube Remote Control	AL	Q315	VSDTC144EK/-1	J	DTC144EK	AB
			Receiver	AC					
			Socket, 10 pin (TA) (VC-A51GM(GY))	AC		INTEGRAT		CIRCUIT	
			Socket, 13 pin (TB) (VC-A51GM(GY))		IC301	VHIAN3311K/-1	J		AS
	QSOCN1095UMZZ	: U	(VC-A51SM(GY)/	) AC					
			VC-A51YM(GY))	a AB		DI	QQ	E	
\$5001, 5002,	QSW-K0079GEZZ		Switch, Channel Up	1 AD	D301	RH-DX0053GEZ	Z j	155132	AA
5004,			Switch, Clock Switch, Tracking (-)/	,	<b>}</b>				
5005,			Muting (-)						
5006,			Switch, Tracking (+)/		]	C	OIL	S	
		٠.	Muting (+)	od i	L301	VP-XF270K000	0 J	27µН	AB
5008,			Switch, Channel Prese		L302	VP-XF3301000			AB
5009,	The second second of	- 1	Switch, DPSS -	li Paradiji Direcana	L303	VP-XF150K000			AB
5010,	temp reference register to the second	An age	SWITCH, DP35 +		<sub>.5.7</sub> L305	VP-XF151K000	0 J	150µH	AB
5021,	program grant product of the state and a	A	Switch, ACL Switch, Power	a a galpena. Lab	]]				
50517	Andreas and the second	· 19 (							
5052, 5053,			Switch, Stop	~ .*	1	CAPA	/CIT	TORS	
5054,			Switch, Rewind		6222	RC-QZZ473UMY	י ע	1 0.04711E	AC
5055,			Switch, Playback		C323	VCOVTA1HM104	K (	J 0.1μF, 50V, 10%, Mylar	
5056,			Switch, Fast Forward		[ C350	or		, 0.1 p., 50 1, 10 12, 11.	
5057,			Switch, Pause			RC-QZZ104UMY	K I	J	AC
5058			Switch, Record	4.0	11	<b>.</b>			
\$5023	QSW-S0194GEZ	Z	J Switch, Full Auto (VC-A51GM(GY))	AC					
\$5023	QSW-S0193GE	ZZ	J Switch, Full Auto	AC		MISCE	LLA	NEOUS	
			(VC-A51SM(GY)/ VC-A51YM(GY))			QPLGN0229TAZ	ZZ	J Plug, 2 pin (TP301—302)	AE
						QPLGN1080GE	ZZ		AC
ļ				···	_	QSOCN0732RE	ZZ	J Socket, 7 pin (ZA)	A
		_			. FB30	1 RBLN-0013GE	ZZ	J Ferrite Bead	A
		_	P. CIRCUIT	25	304	4		<u> </u>	Ha
	DUNTK2970TE	/2			e laws in section of the designation of	njak jir biji			
	TRA	NS	ISTORS	Mar dian		AUDI	0 (	IRCUIT	
Q301						DUNTK3216TE	V0	- Audio Board Assembly	_

Appendix agency of the second second

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Ref. No.	Part No.	* Descrip	tion C	ode	Ref. No.	Part No.	*	Description	Code
	TRANS	ISTOR				CONNECTION	SHIF	T CIRCUIT	
Q602	VS2C3939SQR-1	J 25C3939SQF		AC		DUNTK3593TEV5	B ('	Connection Shift loard Assembly VC-A51GM(GY) Connection Shift	_
	INTEGRATI	ED CIRCUIT						Board Assembly	ļ
IC601	VHIBA7765AS-1	J BA7765AS		AM				VC-A51SM(GY)/ VC-A51YM(GY))	
	CON	TROLS				TRAN	SISTO	OR .	
R610	RVR-M4165GEZZ		el Adj.	АВ	Q1402	VS2C1740SQR1E		2SC1740S (VC-A51GM(GY))	AC
R630	RVR-M4175GEZZ	) 470k(B) Bia	s Level Adj.	AB					
						INTEGRAT	ED C	IRCUIT	
	COILS AND T	RANSFORME	3		IC1403	VHISDA5642/-	J	(VC-A51GM(GY))	AY
L601 L602	VP-YF822J0000 VP-CF221K0000			AC AB					
T601	RTRNH0053GEZZ	J Oscillator		ΑĒ		•	OIL		
					L1401	VP-MK101K000	ر 0	100μΗ (VC-A51GM(GY))	АВ
	CAPA	CITORS			1				
C601	RC-QZA122TAY		)V, 5%, Myla	r AA AA	<u> </u>	CAR	CITC	anc .	<del></del>
C604	RČ-QZA123TAY	յ	υν, 5%,	дд		CAPA			AB
C608 C610	RC-QZA152TAY VCEAGA1AW107	_		r AA AB	C1405			0.033μF, 50V, 10%, Mylar (VC-A51GM(GY))	
C615	RC-QZA183TAY	ו ני 0.018μF,! Mylar	50V,5%,	AA	C1408	VCQYTA1HM104	K J	0.1μF, 50V, 10%, Mylar (VC-A51GM(GY))	AC
C616	RC-QZA153TAY	ν	50V, 5%,	AA				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
C623	VCQPSA2AA562	2J J 5600pF,1	00V,5%,	AB					
C627	VCE9AA1HA105	Polypro F M J 1µF, 50V		AC		MISCE	LLAN	IEOUS	
C629		Electroly Κ U 0.012μF,				QSOCN0794UM	ZZ U	Socket, 7 pin (UA) (VC-A51SM(GY)/	AB
		Mylar				QSOCN0994UM	ZZ U	VC-A51YM(GY)) Socket, 9 pin (UA) (VC-A51GM(GY))	AC
					ᆌ	QSOCN0879GE			
	MISCE	LLANEOUS			-	QSOCN1294UM QSOCN1094UM			Α[ (A
	QPLGN0229TA	(TP601-	-602)	AB AB		QSOCN1094UN		J Socket 10 pin (UF) (VC-A51SM(GY)/	A
	QPLGN0528TA QPLGZ0525GE QPLGZ0625GE	ZZ J Plug, 5 p	oin (603) oin (K601) oin (K602)	AE AC	3	QSOCN1594UN	1ZZ L	VC-A51YM(GY)) J Socket, 15 pin (UF) (VC-A51GM(GY))	A

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
	POWER	CIR	CUIT			CAPAC	TC	ORS	
	RDENT0531GEZZ		Power Board Assembly	_	<u></u> ∆C901	95KUGFJ473CX or	J	0.047μF, 250V, Film	AG
			(VC-A51GM(GY))			95KUGFZ473FH	J		AE
	RDENT0532GEZZ		Power Board	_	C902,	95KUGZ0671ZZ	J	2200μF, 35V,	AG
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Assembly		903	or		Electrolytic	
			(VC-A51SM(GY)/		l .	95KUGZ0654ZZ	J		
			VC-A51YM(GY))		<b>∆</b> C904	95KUGAG470JS	J	47μF, 63V, Electrolytic	AC
						or			
							j		
					C906	95KUGAD330EK		33μF, 25V, Electrolytic	AB
	TRANS	ISTO	nps		C907	95KUGAC470EK		47μF, 16V, Electrolytic	AB
	CALVAIL	310	)NJ		C908	95KUGAB470JS		47μF, 10V, Electrolytic	AB
<b>∆</b> 'Q901	95KUAD0088AC	J	2SD1565(2)	ΑF	C909	95KUGAB470FD		47μF, 50V, Electrolytic	AB
<b> ∆</b> Q902	95KUAA0069AK	J	2SA1013TPE1	ΑE	C910	95KUGAF470EK	J	47μF, 50V, Electrolytic	AC
	INTEGRATE	חכו	IRCUITS			RESIS	TO	RS	
Aucona				AK	<b> ▲</b> R901,			6.8 ohm, 1/2W, Solid	AB
<u></u> ∆IC901 <u></u> ∧IC902	95KUCB0029AZ 95KUCB0027AS		PQ09R05 UPC7805H-2	AG	<u>∧</u> 902	93KUE2U4372K	,	0.0 Ollin, 1/244, 3000	Ab
<b>₩</b> 1C902	95KUCBUU2/A5	,	UPC/603H-2	MG	<u> </u>	95KUECC685AE			АВ
					<u></u> <b>₹</b> R903	95KUEBBR27AM	1	0.27 ohm, Fuse Resistor	
			1.		R906,	95KUEEB471BE		0.47 ohm, Carbon	AA
					907	or		OT. Olim, Carbon,	
	DIO	DES			307	95KUEEB471BF	(14) Will	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AA
<b>∆</b> D901	95KUBC0112AL	J	11E-TA2B2	АВ		95KUES1802AE		18k ohm, Carbon	AA
W6201			(D901-D908)		214(10)000	or	٠.	, 5 % 5	
<b>№</b> 908	95KUBC0200BZ	-1	1N4002G (D901-D904)	AG		95KUES1802AL	J		AA
711	or	•			R909	95KUEE8563BE		5.6k ohm, Carbon	AA
	95KUBC0180BZ	J	SR1M-2 (D901-D904)	AB		or			
<b>∆</b> D909	95KUBC0150BK		11ES2-TA2B2	AB		95KUEEB563BF	J		ДД
2.7255	or	-			<b></b> ♠R910			2.2k ohm, Carbon	AA
	95KUBC0216CK	J	1A3-F	AB	_	or			
	or					95KUES2201AL	J		AC
	95KUBC0125BK	j	ERA15-02V1	AB	R911	95KUEEB822BE	J	8.2k ohm, Carbon	AA
D910	95KUBA0004KZ			AB		or		•	
	or					95KUEEB822BF	J		AA
	95KUBA0005AZ	3	1SSS55	AB	R912,	95KUEEB472BE	J	4.7 ohm, Carbon	AA
D911	95KUBDAK6R8D			AB	913	or			
D913	95KUBDAK330C			AB		95KUEEB472BF	J		AA
D914	95KUBDAK7R5B			AB	R914,	95KUEEB153BE			AA
	~ - · · · - · · · · · · · · · · · · · ·	-			915	or			
						95KUEEB153BF	J		AA
					PR901	95KUEZ0403ZK	J	6.8 ohm, Thermistor	AF
	COILS AND TI	PAN	ISEORMER	-					
A				ALL	dia-parteria com a en laidhith a phia	Agrantia de la compansión de la compansi		Andrew Control of the	- 111111
<u> </u>	95KUKZ0239ZZ or	, n	rifter	AH			_		
	95KUKZ0025ZZ		THE MIC AT A TRACTICALLY	AM	provestion in application	MISCELL MISCELL			
<u></u> ∆L902			Filter (VC-A51GM(GY))	MΓ	<u></u> <b>▲F901</b>	95KPJCTB100 <u>1</u>	١,	T1A, 250V, Fuse	AD
<u> </u>	95K116035226	ų.		.*		or	der i	the second property of the second sec	
			and the second s	Albert de		95KPJCAY1001		T2.5A, 250V, Fuse	AD

AB

	Ref. No.	Part No.	*	Description		Code	Ref. No.	Part No.	*	Description	Code
*	Δ	QACCV2031UMZZ or	υ	AC Cord (VC-A51SM(GY)/	<i>c.</i>		Δ	QACCZ2011GEZZ or	J	AC Cord (VC-A51GM(GY))	AT
*	Δ	QACCV2038GEZZ or	J	VC-A51YM(GY))		AM	$\triangle$	QACCZ2021GEZZ 95KPKZ0194ZZ	1	Plug, 3 pin (OA)	AC
*	Δ	QACCV2039UMZZ	U			ΑТ		95KPCZ0149ZZ		Socket, 9 pin (PA)	

#### \* Remark:

When changing main cord the whole cord with connection plug must be changed.
(VC-A51SM(GY))

The cable is kept as a spare part by:

- SWEEDEN
  SHARP ELECTRONICS (SVENSKA) AB
- DENMARK
   RUDOLPH SCHMIDT A/S
- FINLAND
   ASA KULUTUS ELEKTRONIIKA OY
- NORWAY
   TRANSEL A/S

#### \* Bemerkung:

Bei der Auswechselung des Netzkabels muß das ganze Kabel mit Stecker ausgewechselt werden. (VC-A51SM(GY))

MLEVF0283GEZZ J Half-Loading

Hat das Kabel als Ersatzteil vorrätig:

- SCHWEDEN
  SHARP ELECTRONICS (SVENSKA) AB
- DÄNEMARK RUDOLPH SCHMIDT A/S
- FINNLAND
   ASA KULUTUS ELEKTRONIIKA OY
- NORWEGEN
   TRANSEL A/S

QCNW-2702GEZZ	J	Connecting Cord	AK
TINS-2115UMZZ	U	Operation Manual (VC-A51GM(GY))	
TINS-2116UMZZ	U	Operation Manual (VC-A51SM(GY))	
TiNS-2117UMZZ	U	Operation Manual (VC-A51YM(GY))	
RRMCGQ979GESA	U	Infrared Remote Control Unit	
ú		(VC-A51SM(GY)/ VC-A51YM(GY))	
RRMCG0978GESA	U	Infrared Remote Control Unit	
92PBAS11M202A		(VC-A51GM(GY)) Battery Cover, Infrared Remote	
		Control	

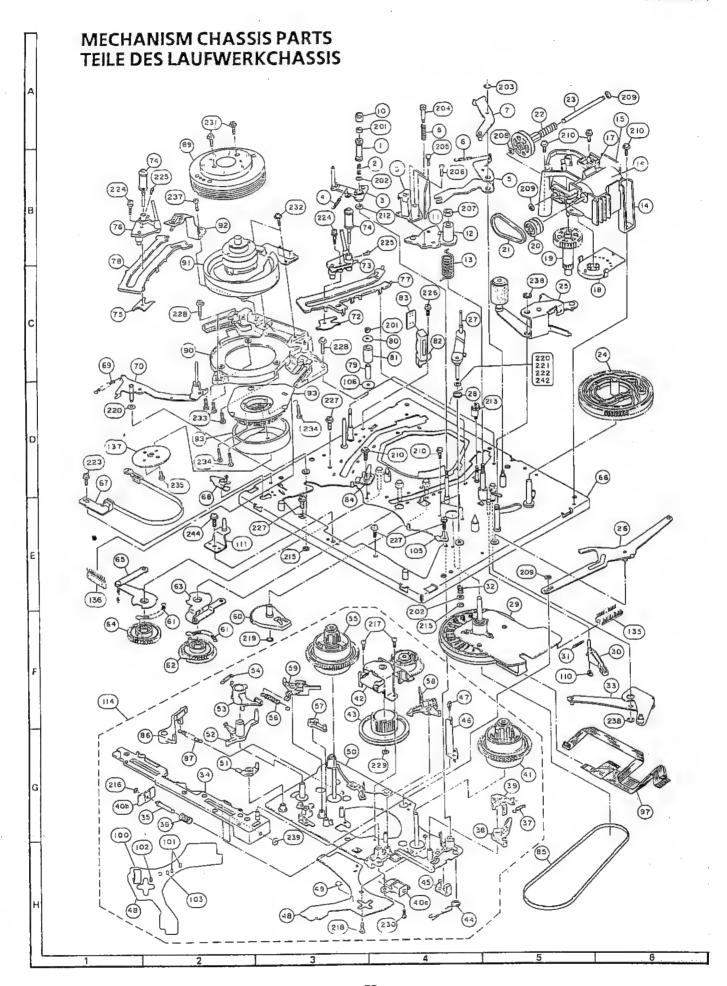
	MECHANISM CHASSIS PARTS												
1	PGIDS0023GEFW	J	Retaining Guide	AE									
2	MSPRC0142GEFJ	١	Retaining Guide	AA									
			Spring										
.3	MLEVC0022GEZZ	J.	Half-Loading Lever	AF									
4	MSPRT0270GEFJ	j	Half-Loading Lever Spring	AA									
5	MLEVF0284GEFW	J	Half-Loading Drive Lever	AC									
6	MSPRT0269GEFJ	j	Half-Loading Reciprocating Spring	AA									

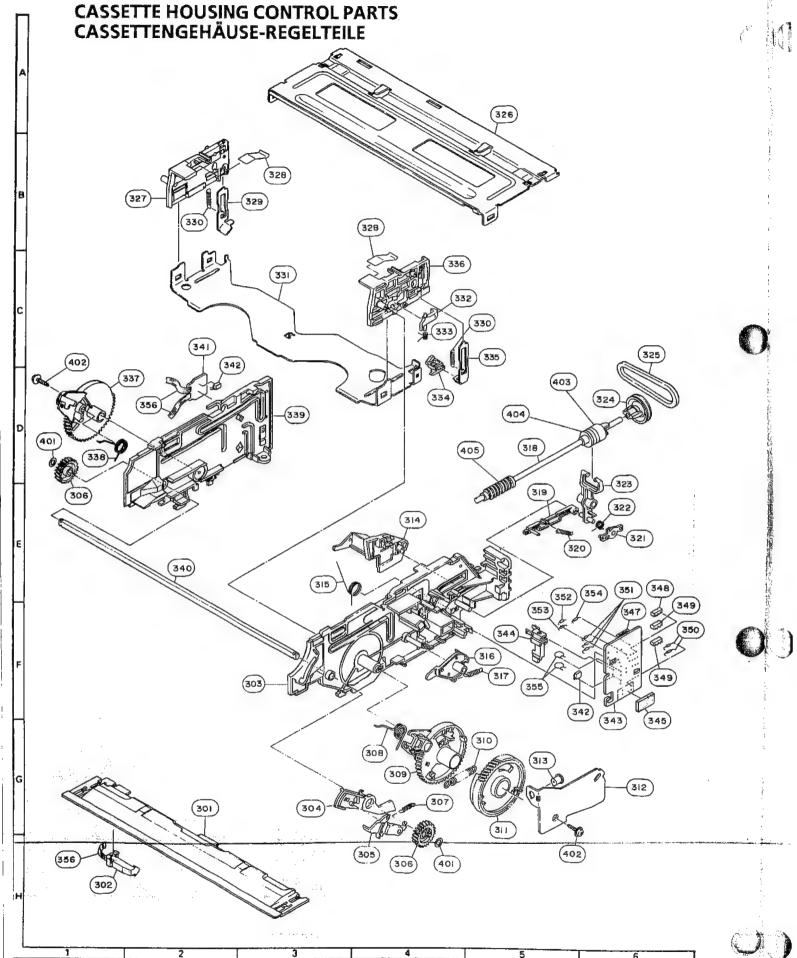
			Reciprocating Lever	
8	MSPRC0144GEFJ	J	Azimuth Spring	AA
9	RHEDU0070GEZZ	j	Audio/Control Head Ass'y	AS
10	PCAPS1015GEZZ	J	Retaining Guide Cap	AA
11	QPWBF2888GEZZ	J	Audio/Control Head PWB	AB
12	MLEVF0292GEZZ	J	Audio/Control Head Arm	AD
13	MSPRD0087GEFJ	J	Audio/Control Head Arm Spring	AA
14	LHLDZ1606GEZZ	J	Loading Block Holder Ass'y	AC
15	QPRBF2886GEZZ	J	Loading Block PWB	AD
16	RMOTM1049GEZZ	J	Loading Motor	AM
17	QPLGN0529TAZZ	J	Plug, 5 pin (MG)	AB
18	QSW-R0026GEZZ	J	Cam Switch	AE
19	NGERW1032GEZZ	J	Worm Wheel	AC
20	NPLYV0133GEZZ	J	Loading Motor Pulley	AC
21	NBLTK0058GE00	J	Loading Belt	AA
22	NGERW1031GEZZ	J	Worm Ass'y	AC
23	NSFTG0045GEFJ	J	Worm Shaft	AB
24	NGERH1129GEZZ	J	Master Cam	AC
25	MLEVF0281GEZZ	J	Pinch Roller Lever Ass'y	AN
26	MLEVF0290GEZZ	J	Relay Shifter Lever	AE
27	MLEVC0023GEZZ	J	Reverse Guide	AG
28	MSPRD0086GEFJ	1	Reverse Guide Spring	AA
29	RMOTN2028GEZZ	J	Capstan D.D. Motor	AZ
30	MLEVP0136GEZZ	3	Slow Brake Lever	AA
31	MSPRT0276GEFJ	1	Slow Brake Spring	AA
32	MSPRC0151GEFJ	ţ	Reverse Guide Spring	AA
33	MLEVF0289GEZZ	j	Relay Gear Drive Lever	AE
34	MSLIF0043GEZZ	J	Brake Shifter	AK
35	NSFTZ0068GEFD	1	Brake Lock Shaft	AC
36	MSPRC0143GEFJ	J	Absorber Plate Spring	AB

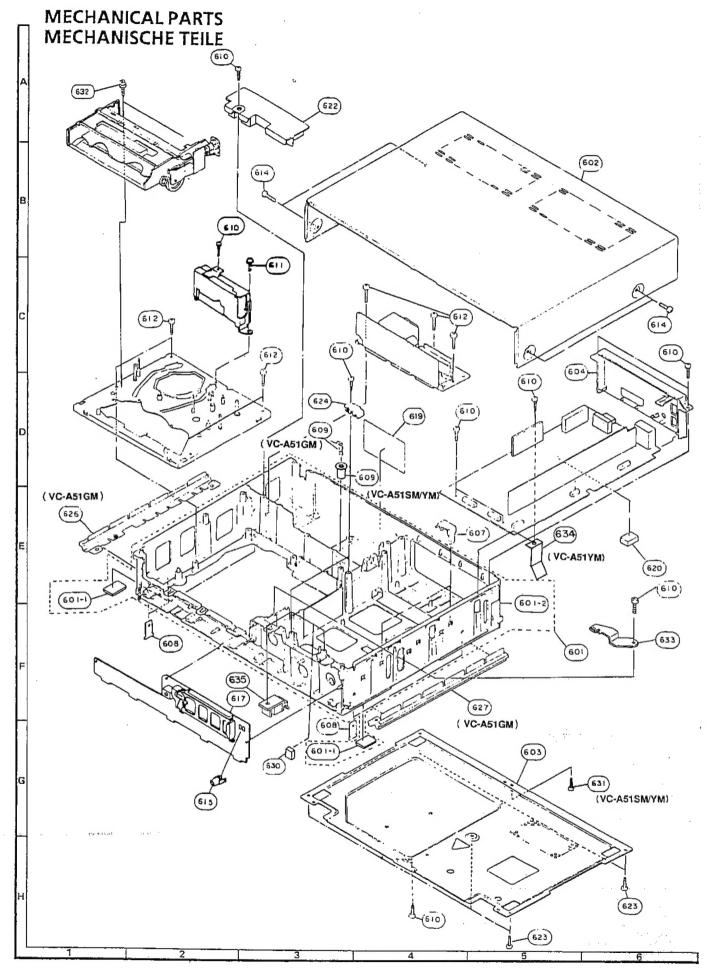
Ref.	No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
37	,	MSPRT0274GEFJ	J	Video Search Spring	AB	81	NROLP0084GEZZ	J	Supply Impedance	AC
38	3	MLEVP0181GEZZ	J	Video Search Brake	AD				Roller	AK
				Lever		82	RHEDT0026GEZZ QPWBF2936GEZZ	J	Full Erase Head Ass'y Full Erase Head PWB	AA
38	)	MLEVP0131GEZZ	J	Video Search	AC	83 84	LANGA0054GEZZ		Supply Reel Retainer	AD
				Reciprocating Lever	AF	64	LANGAUUS4GELL	1	Ass'y	~
40		RPLU-0083GEZZ		Brake Solenoid Ass'y Take-Up Reel Disk Ass'		85	NBLTK0059GE00	1	Reei Belt	АВ
41		NDAIV1046GEZZ		idler Gear Ass'y	AN	86	MLEVP0146GEZZ		Auxiliary Fast-Forward	AE
42		NGERH1128GEZZ NPLYV0134GEZZ		Reel Pulley	AC		111667101100	-	Brake Lever	
43		MSPRD0085GEFJ		Shifter Spring	AB	87	MSPRT0282GEFJ	j	Auxiliary Fast-Forward	AB
4:		PCOVP1018GEZZ		Shifter Spring Cover	AC				Brake Spring	
46		LHLDP1092GEZZ		Cassette LED Holder	AE	89	DDRMU0004HE17	J	Upper Drum Ass'y	BL
47		RH-PX0180GEZZ		Cassette LED	AD	90	PGIDC0039GEFW	3	Drum Base	AL
41		QPWBF2977GEZZ		Reel Sensor PWB	AK	91	DDRML0012HE00	J	Lower Drum Ass'y	BE
49		RH-PX0181GEZZ		Reel Sensor	AE	92	QBRSK0021GEZZ	J	Earth Brush Ass'y	AC
50		LCHSS0016GEZZ		Reel Block Chassis	AL	93	RMOTP1107GEZZ	J	Drum D.D. Motor Ass'y	AW
5		MLEVP0134GEZZ		Tension Adjusting	AC	97	QCNW-5969GEZZ	J	Full Flat Cable	AM
ا ا	•	1012277 0 10 10222		Lever					(Capstan D.D. Motor	
5	2	MLEVP0195GEZZ	j	Tension Release Lever	r AC				and Drum D.D. Motor)	
5		MLEVP0132GEZZ		Back Tension Lever	AC	100	QSOCN0534REZZ	J	Socket, 5 pin (MF)	AC
5		MSPRT0273GEFJ		Back Tension Lever Spring	AB	101	VRS-TW2ED221J	j	220 ohm, 1/4W, 5%, Oxide Film	AA
5	5	NDAIV1047GEZZ		Supply Reel Disk Ass'y	AH	102	VCKYTV1HB102K	J	0.001 µF, 50V, 10%,	AA
5		MSPRT0272GEFJ		Main Brake Spring	AC				Ceramic	
5		MLEVP0135GEZZ		Intermediate Lever	AC	103	VRS-TV1JD473J	J	47k ohm, 1/16W, 5%,	AA
5		MLEVP0129GEZZ		Main Take-Up Brake	AE				Oxide Film	
				Lever		105	LANGA0051GEFW	/ J	Take-Up Reel Disk	AB
5	9	MLEVP0128GEZZ	J	Main Supply Brake	AE	11			Catch Holder	
		NGERH1121GEZZ		Lever Loading Relay Gear	AA	106	PGIDS0027GEZ	Z J	Supply Impedance Roller Flange L	AA
1	0					110	PCAPS1018GEZZ		•	AA
6	1	MSPRT0271GEF.	, ,	Spring	y nn	111	LANGF7061GEZZ			AC
١.		NGERH1120GEZZ		Take-Up Loading Gea	ar AA	114	CCHSS0018GE02			ΑZ
1	52 53	MLEVF0304GEZZ		Take-Up Loading Arn		135	94SSEE551121/			AU
, ,	15	WILE VFUSU4GEZZ		Ass'y		136	94SSEE559421/		Drum Motor DD IC	AU
١ ,	54	NGERH1119GEZ	z J		AA	137	PSPAZ0315GEZ	z J	Inertia PlaTe	AB
	55	MLEVF0303GEZZ			AC					
1 `	,,,	14(224) 0505 0222	•	Ass'y						
1	56	LCHSM0108GEZ	z j		AR					
	57	LBNDK1002GEZZ			ΑĎ	<u></u>				
1	58	LHLDZ1607GEZ	Z J	Tension Spring Hook Plate	AA	CA:	SSETTE HOUSI	NG	CONTROL PART	S
1	<b>59</b>	MSPRT0275GEF	ן נ	Tension Spring	AA		CHLDX3052GE5	1	J Cassette Housing	AY
	70:	MLEVF0291GEZ			AF	<b>H</b>		- '	Control Assembly	
1 .	72	MSLIF0049GEFV			AB	301	PGIDM0069GE0	0	Down Guide	AC
	* V (10%)			Slider		302	QSW-F0034GEZ			AC
	73	LPOLM0037GEZ	Z, J	Take-Up Pole Base A	ss'y AG		4		Protection Switch	-
	74	NROLP0062GEZ	Z.	Guide Roller Ass'y	AE	303	LHLDX1014GE0	0	J Cassette Housing	AC
1	75	MSLIF0048GEF					**************************************		Frame (Right)(rechts)	
5.4	76	LPOLM0036GEZ	5 5 11	and the state of t		304	MARMP0043GE0	0		AA (
1,	77	PGIDM0066GEZ				305	MARMP0044GE0	0		
	78	PGIDM0067GEZ				306	NGERW1036GEZ	Z	-	AA
	79	NSFTL0563GEFV	٧		AC	307	MSPRT0290GE	1	J Cassette Cover Arm	AA
	e partire.		en er Marie	Roller Innor	200 A P & A		•		Reciprocating Spring	
	80	PGIDH0031GEF	W.	Supply Impedance	AA	11	******		1 - 1	A A
	00		-,-	Roller Flange		308	MSPRD0088GE	FJ	J Drive Gear Spring (Right)	AA

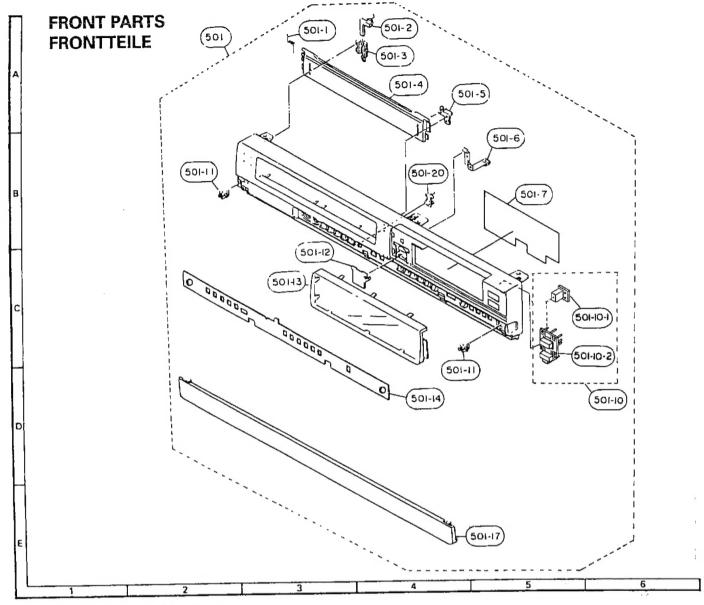
Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
309	NGERW1034GEZZ		Drive Gear (Right)	АВ	356	QCNW-4789GEZZ	J	Connecting Cord	AF
310	MSPRT0277GEFJ	j	Reciprocating Spring	AA	401	LX-WZ1020GE00	J	Cut Washer	AA
311	NGERW1033GEZZ	j	Worm Wheel Gear	АВ				(4.2W-6.0-0.5)	
312	LANGF9355GEFW	J	Worm Bracket	AB	402	LX-HZ3046GEFD	J	Screw	AA
313	NBRGP0013GEZZ	J	Bearing	AA					
314	MLEVP0142GE00	j	Open Lever	AA	ì				
315	MSPRD0091GEFJ	J	Open Lever Spring	AA					
316	MLEVP0141GEZZ	j	Switching Lever	AA		CREWS, NUTS,	Δ	ND WASHERS	
317	MSPRT0280GEFJ	J	Switching Lever Spring	AA		CREVIS, NOTS,	_	TO TO TO THE TO	
318	NSFTD0016GEZZ	J	Worm Shaft Ass'y	ΑE	201	XNFSD20-16000	J	Adjusting Nut	AA
319	MLEVP0140GEZZ	J	Clutch Lock Lever	AA	202		j	Washer W2.6S-6-0.5	AA
320	MSPRT0279GEFJ	j	Clutch Lock Lever	AA	203	XRESJ20-04000	j	E Ring-2	AA
320			Spring		204	LX-BZ3095GEFD		AC Head Screw	AA
321	MLEVP0139GEZZ	j	Clutch Release Lever	AA	205	XBPSD26P06000	j	Azimuth Adjusting	AA
322	MSPRD0092GEFJ	1	Clutch Release Lever	AA	205	XBF3D20100000	•	Screw	
322	WIST REGUSECETS		Spring		206	LX-BZ3096GEFD	ı	Tilt Adjusting Screw	AA
323	MLEVP0138GEZZ	j	Clutch Lever	AA	207	XNFSD40-31000		Adjusting Nut	AB
323	NPLYV0135GEZZ	-	Pulley	AA	20/	VIAL 2D=0-21000	٠	(A/C Head)	
325	NBLTKOO60GE00		Cassette Loading Belt	AB	208	XWHJZ31-05054	J	Washer W3.1-5.4-0.5	AA
326	LANGF9354GEFW	j	Upper Plate	AD	209	LX-WZ1041GE00	-	Washer W2.6-6-0.5	AA
327	LHLDX1013GE00	•	Slider Holder (Left)	AB	209	LX-WZ1041GE00	•	(LM)	,
328	MSPRP0097GEFJ	j	Cassette Spring	AA	210	XHPSD26P06WS0	J	Screw C2.6P + 6S	AA
329	LANGF9357GEFW	j	Slider Lock (Left)	AA	210	XRESJ30-06000		*	AA
330	MSPRT0281GEFJ	ī	Slider Lock Spring	AA	212	XWHJZ45-02060	١	Washer PSW4.6-6-0.25	
331	MSLIF0044GEFW	_	Slider	AF	212	LX-NZ3046GEFW	1		AB
332	MLEVP0137GEZZ	Ī	Lock Release Lever	AA	215	LL-WZ1003GE00	١		AA
333	MSPRD0093GEFJ	-	Lock Release Lever	AA	216	XRESJ12-03000	_		AA
333	14151 11500550211		Spring		217	XHPSD26P03000	_	<b>4</b>	AA
334	MLEVP0143GE00	J	Slider Lock Cover	AA	217	XHPSD20P03000		•	AA
335	LANGF9356GEFW	1	Slider Lock (Right)	AA	219	XRESJ25-04000			AA
336	LHLDX1010GE00			AB	220	XWHJZ25-05050			AA
337	NGERW1035GEZZ			AB	221	XWHJZ25-03050	_		AA
338	MSPRD0089GEFJ				222	XWHJZ25-01050 XWHJZ25-02050			AA
339	LHLDX1015GE00			AC	223	LX-HZ3043GEZZ			AA
333	111234,10100200	_	Frame (Left)		224	LX-BZ3099GEZZ			AB
340	NSFTD0015GEFD	ı		AD	224	EX-823093GE22	•	(W5)	,
341	OPWBF2894GEZZ			AB	225	LX-XZ3030GEFD	j		AC
342	RH-PX0176GEZZ			AE	226	XHPSD26P08WS0			AA
343	OPWBF3194GEZZ			AC	227	XJPSD26P08WS0			AA
344	OSW-F0040GEZZ			AD	1	X3, 3520, 00 H 30		C2.6P + 8S	,
345	ZTAPEZ7900088			AA	228	XHPSD30P08WS0	1		AA
347	QSOCN0595GEZZ			AB	11	LX-WZ1040GE00			AA
348	VSDTC124F//-1		•	AC	229	XJBSD20P06000			AA
349	V\$2\$A937-Q/-1			AC	230	X383D20P08000		-	AA
350	VRD-SA2BB153.			AA	431	LX-HZ3056GEFC			AA
330	FRE-SALPHIJO.		Carbon	'	232	FV-USOOGELF		S3P + 10S + W6 + SW	AA
351	VRD-SA2BB223	1		AA	222	XBPSD30P08J0	n		AA
331	1 NO-37400263		Carbon		233	XBPSD30P06J00			AA
352	VRD-SA2BB103	J		AA	234				AA
332	V ND-3M200103		Carbon		11 233	XBPSD30P05J09 XHPSD30P06000			AA
353	VRD-SA2BB472	J		ДД	237				AA
355	VIO-3A200472		Carbon		236	LX-RZ3001AEZ			AA
354	VRD-SA2BB332	1		ДД	239	LX-WZ1042GE0			AA
354	A UD-2W588325		Carbon		242	XWHJZ25-04050			AA
355	RC-KZ0028GEZ	Z .		AA	244	XHPSD30P04WS	U	3 3016W C2F #43	, pagpag

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
	MECHANIC	CA	L PARTS		634	QEARP0341GEFW	Ţ	Side Earth (VC-A51YM(GY))	
601	CCABB1079TEV0	U	Main Frame Ass'y		635	LHLDZ1610GEZZ	J	VPS Holder	AA
601-1	PFLT-0069GEZZ		Felt, Pad	AA					
601-2	GCABB1079UMZZ	IJ	Main Frame						
602	GCABA3046UMST	U	Top Cabinet	İ					
603	GBDYU3052UMZZ	U	Bottom Plate	AK	]	FRONT PAI	ΝE	L PARTS	
604	GCOVA1511UMZZ	U	Antenna Terminal	AF	ļ				
			Cover		501	CPNLC1769TEV0	U	Front Panel Assembly	
607	LHLDZ1609UMZZ	U	Y/C Holder	AA				(VC-A51GM(GY))	
608	QEARP0276UMFW	U	Earth Plate, Upper	AA		CPNLC1769TEV1	U	Front Panel Assembly	
609	MSPRC0145UMFJ	U	Spring, Power	AA				(VC-A51SM(GY)/	
			(VC-A51GM(GY))					VC-A51YM(GY))	
609	PSPAS0015UMZZ	U	Spacer	AA	501-1	MSPRD0103GEFJ	J	Spring	AB
			(VC-A51SM(GY)/	1	501-2	LHLDZ1662UMZZ	U	Holder	AB
			VC-A51YM(GY))		501-3	LHLDZ1663UMZZ	U	Holder	AB
610	XEBSD30P12000	J	Screw	AA	501-4	HDECQ0999UMSA	U	Cassette	
611	XHP\$D30P06WS0	J	Screw	AA	_			Compartment Cover	
612	XEBSD40P12000	J	Screw	AA	501-5	LHLDZ1661UMZZ	υ	Holder	AA
614	LX-HZ3040GEFF	3	Screw, Top Cabinet	AA	501-6	QEARP0272UMFW	U	Earth Plate	AA
615	LHLDP1012GE08	J	LED Holder		501-7	PCOVU9171GESB	j	Fluorescent Display	AE
617	LHLDZ1716GEZZ	J	Holder, Fluorescent	AC	ļ			Filter	
			Display Tube		501-10	CBTN-2533GE02	U	Operate/Eject Button	AG
619	TLABM0119UMZZ	U	Model Label					Ass'y	
			(VC-A51GM(GY))		501-10-1	GCOVA1671GESA	U	LED Cover	AE
619	TLABM0120UMZZ	U	Model Label		501-10-2	JBTN-2533GESB	J	Power Eject Button	1
			(VC-A51SM(GY)/		501-11	LHLDS1010UMZZ	U	Door Holder	AB
			VC-A51YM(GY))		501-12	GCOVA1425UMZZ	U	R/C Cover	AB
620	PSPAZ0202GEZZ	J	Spacer	AC	501-13	HDECQ0697UMSA	U	Decoration Plate	AG
622	LHLDZ1624UMZZ	U	Holder	AD	501-14	HINDP1944UMSA	U	Indication Plate	
623	LX-HZ3047GEFF	J	Screw, Bottom Plate	AA		ym" .		(Inside the door)	ļ
624	LHLDZ1616GEZZ	j	Holder	AA				(VC-A51GM(GY))	1
626	HDECA0132GEZZ	J	Earth Connection	AH	501-14	HINDP1945UMSA	U	Indication Plate	
			Plate (VC-A51GM(GY))					(Inside the door)	
627	HDECA0133GEZZ	J	Earth Connection	AH				(VC-A51SM(GY)/	
			Plate (VC-A51GM(GY))					VC-A51YM(GY))	
630	PSPAZ0202GEZZ	J	Spacer	· AA	501-17	GDORF2131UMSA	U		
631	XJBSD30P16000	J.		AA				(VC-A51GM(GY))	}
			(VC-A51SM(GY)/			GDORF2132UMSA	· U		
			VC-A51YM(GY))					(VC-A51SM(GY)/	-
632	XHP\$330P06W\$0	J		AA	11			VC-A51YM(GY))	
633	LANGF9367GEFW	J	Casecon Angle	AB	501-20	JBTN-2227UMSA	. U	Button, REC	AF

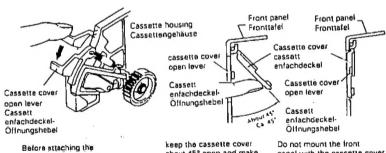








PRECAUTIONS ON FRONT PANEL SET-UP VORSICHTSMASSNAHMEN BEIM ANBRINGEN DER FRONTTAFEL



front panel in position make sure that the cassette cover-99 is in its right place. of position, push it down with a linger.

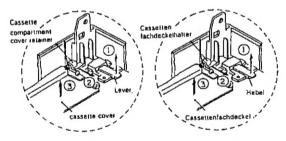
Vor dem Anringen der Fronttalel sicherstellen, daß sich der Cassettenfachdeckel-Offnungshebel richting triefste stelle) befindet. Wenn sich der Hebel nicht in dieser Position befindet, ihn mit einem Finger hinunterdrücken.

keep the cassette cover about 45° open and make sure that the cassette cover open lever is between the front panel and the cassette cover. Now fix the front panel in place.

Den Cassettenfachdeckel ca. 45° offen halten und sicherstellen, daß sich der Otlnungshabel zwischen der Fronttafel und dem Cassettenfachdeckel befindat schließlich die Fronttafel befestigen.

Do not mount the front panel with the cassette cover tilted too open. Otherwise the cassette cover might wrongly run on the cassette housing.

Die Fronttafel nicht anbringen, wenn der cassettenfachdeckel zu weit geölfnet ist. Der Cassettenfachdeckel könnte durch das Cassettengehäuse beschädigt



Removing the cassette compartment

- Lift up the cassette compartment cover in the direction of arrow (3) and remove it from the front panel.

Entfernen des Cassetten fachdeckels

- Den Hebel in die Plaskichtung Danheben cassettenfachdeckelhalter in die Pfeikichtung 2 zu schieben.
- Den Cassettenfachdeckel in die Pfeirichtung 3 anheben und den Deckel von der Frontplatte entiernan.

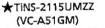
# PACKING OF THE SET/VERPACKUNG DES GERÄTES

#### Setting position of the Knobs

### • Einstellpositionen der Knöpfe

Colour mode	at "AUTO" position	Farbmodus	Stellung "AUTO"
Test signal	at "OFF" position	Prüfsignal	Stellung OFF (AUS)

#### ★ Accessories / Zubehör



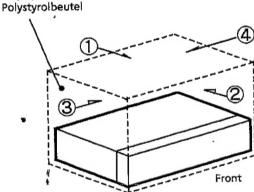
- ★ TINS-2116UMZZ (VC-A51SM)
- ★ TINS-2117UMZZ (VC-A51YM)

Operation manual Bedienungsanleitung Operation manual Bedienungsanleitung Operation manual Bedienungsanleitung 75 Ohm-Koaxialkabel

★QCNW-2702GEZZ 75 ohm Coaxial cable Battery Batterie

★ SSAKA0003UMZZ Polystyrene sack Polystyroibeutel

## ★ SPAKP0051UMZZ Polystyrene sack



RRMCG0978GESA (VC-A51GM) RRMCG0979GESA (VC-A51SM/VC-A51YM) Infrared remote control unit Infrarotfern-

bedienungseinheit

★ SPAKC2352UMZZ (VC-A51SM) ★ SPAKC2353UMZZ (VC-A51YM) Packing case Verpackungskarton

★ SPAKC2351UMZZ (VC-A51GM)

#### ★ SPAKX0477UMZZ **Buffer material (Rear)**

Mit Klebband festlegen

Polystermaterial (Rücker) Fix with craft tape

> ★ SPAKX0476UMZZ Buffer material (Front) Polystermaterial (Front)



★ TLABK0001UMZZ No. Card Nummernkare

> ★ Not Replacement Items Keine Ersatzteile

# SHARP

T8884-S Printed in Japan In Japan gedrukt